

FIRE LOSSES IN BRITISH COLUMBIA IN 1991



**Province of
British Columbia**

**Ministry of
Municipal Affairs,
Recreation and Housing**

12

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Fire Losses in British Columbia in 1991

Forty-three persons died and 416 were injured in 7,671 fires in 1991 that caused a total dollar loss of \$174,991,021. Statistics for the past ten years are shown in Table 1 below.

There were eight fewer fatalities from fire in 1991 than in 1990, a significant decrease of 16 per cent. The number of injuries also fell, from 464 in 1990 to 416 in 1991, or ten per cent. Nevertheless, the number of persons injured in fires in 1991 exceeds the average number injured per year over the past decade.

Dollar losses in 1991 increased just 2.1 per cent over losses in 1990, \$175 million versus \$171.5 million. The number of fires in the province increased by three per cent, from 7,455 to 7,671. The average loss per fire in 1991 was \$22,801, down slightly from the \$23,002 per fire experienced in 1990.

Fire Fatalities

- Eighteen men, eight women and 13 children lost their lives to fire in 1991. The age of four persons who died remains undetermined.
- Twelve of the fatalities (28 per cent) were persons over 60 years of age, down from 17 in 1990.
- Fifteen fatalities resulted from careless smoking, up from 14 in this category last year. This is the highest number of deaths from careless smoking since 1987, when 15 also died from this cause.
- Three persons died as a result of intentionally set fires, down one from 1990.
- Four persons who died in fires were suspected of being impaired by alcohol, drugs or medication, up one from 1990.

Nine of the 43 fire deaths occurred in just two incidents, residential fires in Victoria and Prince George. Seven of these nine fatalities were children. The incident in Prince George killed five and was caused by careless smoking. The cause of the Victoria blaze remained undetermined but it was accidental.

Year	Fires	\$ Loss (millions)			
		Loss (\$ millions)	Adjusted by CPI to constant 1986 \$	Injured	Dead
1991	7,671	175.0	216.5	416	43
1990	7,455	171.5	201.7	464	51
1989	7,280	181.1	202.0	387	58
1988	7,499	119.6	127.7	380	59
1987	7,542	117.1	120.7	398	42
1986	7,667	109.8	109.8	343	58
1985	8,285	131.9	127.7	398	60
1984	7,237	108.9	102.1	396	79
1983	7,724	131.7	118.8	404	83
1982	7,623	157.3	134.5	375	73

Table 1 - Fire Losses in British Columbia, 1982-1991

Residential Fires

Twenty seven per cent of all fires in 1991 were in one- and two-family dwellings, resulting in a total loss of \$45.4 million. This is nearly the same as in 1990, when 26 per cent of all fires were in one- and two-family dwellings and the loss was \$46.8 million.

Fires in apartments increased from 536 in 1990 to 582 in 1991. However, dollar losses in apartment fires decreased, from \$12.2 million in 1990 to \$11.1 million in 1991.

Together, these residential categories accounted for 34.3 per cent of all fires and 32.2 per cent of the total dollar loss in the province. The percentage of dollar loss is down slightly from 1990, when it was 34.4 per cent, and still far below 1988, when residential occupancies accounted for 40 per cent of total losses in the province.

Forty of the 43 fatalities, or 93 per cent, occurred in residential fires. This compares to 1990, when 41 of 51 fatalities (80.4 per cent) occurred in residential fires. Of the remaining three deaths, one occurred in a nightclub fire, one in an automobile fire and one in a trailer classified as an industrial occupancy.

Twenty-one of the 35 fire deaths (60 per cent) in one- and two-family dwellings and apartments occurred between the hours of 10 p.m. and 8 a.m. In 1990, only 48.5 per cent of fatalities in one- and two-family residences occurred during these hours.

In 12 of the fires in which these 35 deaths occurred, no smoke alarm was installed. This represents a significant improvement over 1990, when 22 of the 35 fatalities in one- and two-family dwellings occurred where no smoke alarm was installed. Five deaths involved smoke alarms that did not function, four because of dead or missing batteries and one because AC power was shut off or not working. Of the remaining 18 fatalities, one occurred in an outside area, 13 occurred when smoke alarm operation could not be determined, and four involved working smoke alarms that activated to no avail.

Heating equipment fires accounted for 17.6 per cent of all fires in single-family dwellings but only 3.3 per cent of fires in apartment buildings. Of all heating equipment fires in one- and two-family dwellings, 72.7 per cent were caused by solid-fuel burning equipment. The igniting objects for these solid-fuel fires are shown in Table 3. This is a reduction of about 18 per cent from 1989, but essentially the same as experienced in 1990, when the figure was 72.3 per cent.



Fire Fatalities — Four persons died in this home in Victoria, three of them children. Residential fires continue to take the highest fire death toll. In 1991, 41 of 43 fire fatalities occurred in residential occupancies, or 93 per cent of all fire deaths.

	1- & 2-family Dwelling	Apartment Building
Total Number of Fires in Property Group	2,056	582
Cooking Fires	534	126
As a percentage of all fires in group	26.0	21.6
As a percentage of total \$ loss in property group	10.4	9.5
Number of fatalities over total in property group	1/28	0/7
Heating Equipment Fires	365	19
As a percentage of all fires in group	17.6	3.3 *
As a percentage of total \$ loss in property group	15.4	2.8 *
Number of fatalities over total in property group	1/28	0/7
Smoking material fires	94	81
As a percentage of all fires in group	4.6	13.9 *
As a percentage of total \$ loss in property group	4.6	8.2
Number of fatalities over total in property group	4/28	4/7
Arson fires	162	131
As a percentage of all fires in group	7.9	22.5 *
As a percentage of total \$ loss in property group	15.0	15.7
Number of fatalities over total in property group	1/28	0/7

Table 2 - Comparison of one- and two-family dwellings and apartment fire incidents. The asterisks highlight significant differences between the two occupancies.

Smoker's material accounted for 4.6 per cent of one- and two-family fires and 13.9 per cent of apartment fires. This represents a decline from recent years. The comparable figures in 1989 were 6.4 per cent and 20.3 per cent, and they were 5.9 and 15.3 per cent in 1990.

Educational Institutions

The number of fires in educational occupancies in 1991 was 85, up from 74 in 1990. Dollar losses in 1991 amounted to \$2,635,197, about the same as in 1990 when losses were \$2,420,051 and 1989 when they were \$2,687,875.

Automobile Fires

Automobile fires continue to represent a significant portion of all fires in British Columbia. In 1991 a total of 2,374 automobile fires resulted in a loss of \$8.8 million. This is a slight reduction from



Smoker's Material Fires — As in this duplex in Prince George in which five died, fires caused by smoker's material continued to cause significant loss of life and property in 1991, with 406 fires resulting from careless smoking causing 49 injuries, 15 deaths, and \$5.8 million in losses.

Igniting Object	Fires	Injured	Dead	\$ Loss
Central heating unit	6	0	0	203,385
Space heater	67	3	0	1,321,868
Fireplace	77	0	0	639,452
Masonry Chimney	66	1	0	929,677
Factory-built metal chimney	17	0	0	381,859
Flue connector	50	0	0	1,137,732
Heating equipment, other	6	0	0	324,521
1991 Total	279	6	0	4,938,494

Table 3 - Igniting objects for solid-fuel related fires in one- and two-family dwellings

the number of fires in 1990, but an increase in dollar losses from last year. These fires accounted for 30.9 per cent of fires in the province and five per cent of total dollar losses. There were 2,527 automobile fires in 1990 with a dollar loss of \$8.4 million. Between 1982 and 1991 there was an average of 2,111 automobile fires in British Columbia.

Total losses from automobile fires for the period 1982-1991 amount to \$51,851,371, with 146 injuries and 14 fatalities.

Large Dollar Loss Fires

There were 50 fires in 1991 in which losses were \$500,000 or more, accounting for \$59.7 million in losses, or 34.1 per cent of total losses from all fires. In 1990, large loss fires accounted for 35.7 per cent of the total dollar losses in the province.

The largest single loss in 1991 was \$5.6 million at the Coast Guard wharf in Vancouver. This fire was caused when a boater lost power in a very small craft and drifted under the wharf. In trying to re-start the engine, fire erupted. The \$5.6 million loss does not account for more than two-dozen exposure fires caused by this incident, which are reported as separate incidents in which losses totalled \$804,968.

Seventeen large-loss fires resulted from arson or suspected arson, with losses on \$18 million, or 30.1 per cent of the total losses in the category. In 1990 there were 42 large loss fires of which nine were arson or suspected arson, accounting for 13.3 per cent of the losses in this category.

Arson

Of the 7,671 fires in 1991, 1,827 (23.8 per cent) were arson or suspected arson. This represents a 3.9 per cent increase from 1990, when arson fires accounted for 19.9 per cent of all fires in the province. Arson and suspected arson fire resulted in losses of \$45.5 million, or 26 per cent of total losses in 1991.

The fraction of arson and suspected arson losses of total losses has been holding at about at one-fifth over the past few years. It was 20 per cent in 1987, 19.8 per cent in 1988, 15.7 per cent in 1989, 21.7 per cent in 1990 and rose to 26 per cent in 1991.



Large Loss Fires — In the largest dollar loss fire in British Columbia in 1991, this Coast Guard wharf in Vancouver burned in July, causing a loss of more than \$6 million. No injuries or fatalities occurred in the incident. Large loss fires continue to make up less than one per cent of all fires but persistently represent a significant portion of dollar losses. There were 50 large-loss fires in 1991, which is just .65 of one per cent of all fires, but these fires generated a loss of \$59.7 million, or 34.1 per cent of all losses.

The absolute amount of dollar loss due to arson and suspected arson has been rising, from \$23.6 million in 1987 to \$23.8 million in 1988, 28.4 million in 1989, \$37.3 million in 1990 and \$45.5 million in 1991. Arson and suspected arson fires in 1991 are tabulated in Table 4 below.

The Ministry of the Solicitor General reports that 2,402 arson offences were recorded in 1991, including those for "mischief fires." Suspects were identified in 373 of these incidents resulting in charges against 70 adults and 95 juveniles. Additionally, 139 juveniles were handled by the courts on an informal basis.

Act or Omission	Fires	Injured	Dead	\$ Loss
Arson for financial gain	23	2	0	3,754,722
Arson as a cover-up crime	137	5	0	3,730,954
Arson - political, religious motive	2	3	0	4,000
Arson for revenge, spite	37	3	1	1,813,496
Arson - mental disorder, suicide	17	4	1	1,304,569
Arson - vandalism, mischief	503	3	0	3,201,469
Arson - intimidation	4	0	0	192,000
Arson - motive unknown/unclassified	489	29	1	14,636,606
Suspect arson - motive unknown or unclassified	615	28	0	16,898,651
Total	1,827	77	3	45,536,467

Table 4 - Breakdown of Arson or Suspected Arson Fires

The fire reporting system shows a total of 1,827 (see page 19) arson and suspected set fires for the year, as compared to the 2,402 reported by the Ministry of the Solicitor General, noted above. The difference between these two figures reflects recent amendments to Part XI of the Criminal Code in which "mischief" fires causing property damage are now reported as arson, rather than separately under public mischief. The fire reporting system defines a "fire" as an incident involving combustion that results in a dollar loss. Many mischief fires involve no loss even though property damage may occur, for example, a fire that consumes an open grass field or a pile of scrap tires. Such incidents involve no dollar loss and thus are not reported as fires, but they do involve the judicial system and are included in their statistics of arson and suspected set fires.

R. Dumala, P. Eng
Fire Commissioner

10-YEAR PROPERTY FIRE LOSS COMPARISON, 1982 - 1991

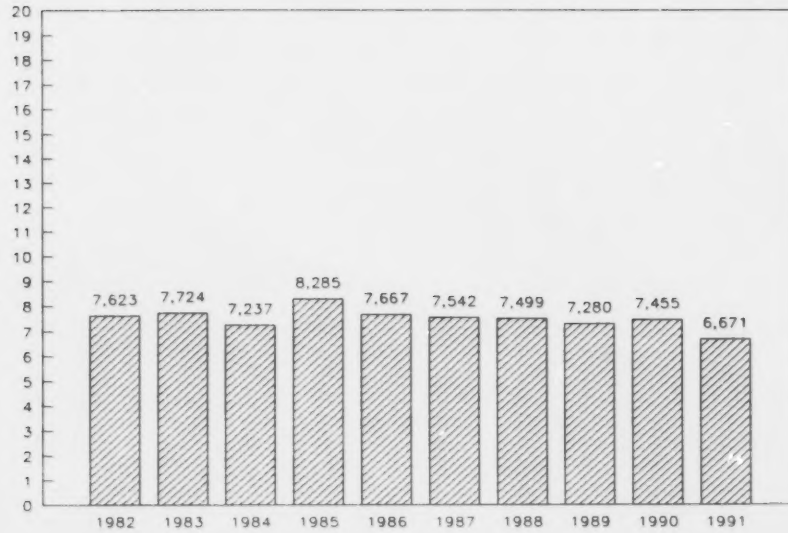
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Number of Fires	7,623	7,724	7,237	8,285	7,667	7,542	7,499	7,280	7,455	6,671
Dollar Loss	\$157,296,688	\$131,659,496	\$108,859,185	\$131,932,474	\$109,834,964	\$117,159,528	\$119,633,561	\$181,071,119	\$171,481,379	\$174,991,021
Loss per Fire	\$20,634	\$17,046	\$15,042	\$15,924	\$14,326	\$15,534	\$15,953	\$24,872	\$23,002	\$26,232
Population (thousands)*	2,783.0	2,823.9	2,870.7	2,892.5	2,889.2	2,925.7	2,983.8	3,055.6	3,131.7	3,282.1
No. of Fires/1000 Persons	2.74	2.74	2.52	2.86	2.65	2.58	2.51	2.38	2.38	2.03
Per Capita Loss	\$56.52	\$46.62	\$37.92	\$45.61	\$38.02	\$40.04	\$40.09	\$59.26	\$54.76	\$53.32
CPI Adjustment Factor#	1.105	1.166	1.213	1.252	1.000	1.031	1.068	1.115	1.176	1.24
Loss Adjusted by CPI	\$142,349,944	\$112,915,520	\$89,743,763	\$105,377,375	\$109,834,964	\$113,636,788	\$112,016,443	\$162,395,622	\$145,817,499	\$141,464,043
Loss/Fire adj. by CPI	\$18,674	\$14,619	\$12,401	\$12,719	\$14,326	\$15,067	\$14,938	\$22,307	\$19,560	\$21,206
Per Capita Loss adjusted by CPI	\$51.15	\$39.99	\$31.26	\$36.43	\$38.02	\$38.84	\$37.54	\$53.15	\$46.56	\$43.10
Persons Injured	375	404	396	398	343	398	380	387	464	416
Fire Deaths	73	83	79	60	58	42	59	58	51	43
Deaths/100,000 Persons	2.62	2.94	2.75	2.07	2.01	1.44	1.98	1.90	1.63	1.31

* Population statistics were provided by Statistics Canada. The figures for 1981 and 1986 are actual census figures. The others are estimates by Statistics Canada.

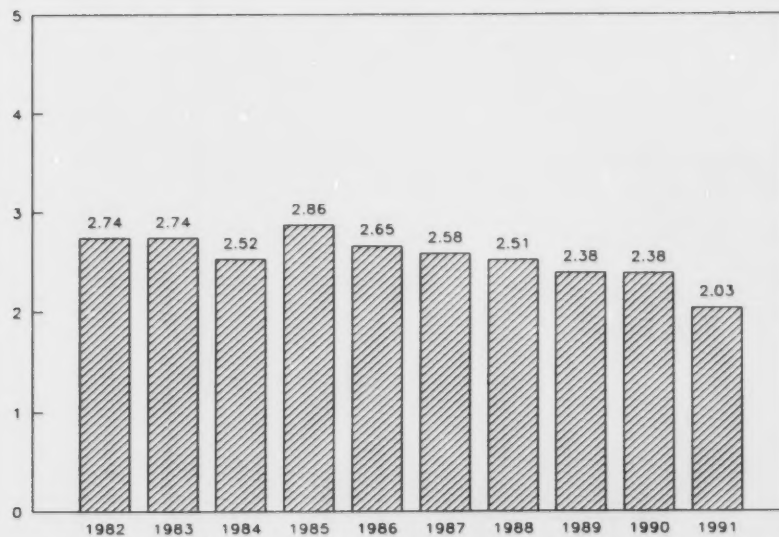
Adjustment Factor. In an effort to get a more realistic picture of losses over the years, some form of adjustment factor was necessary to take inflation into account. We chose the Consumer Price Index for Vancouver with 1986 = 1,000.

Fire Losses in British Columbia, 1989

Number of Fires

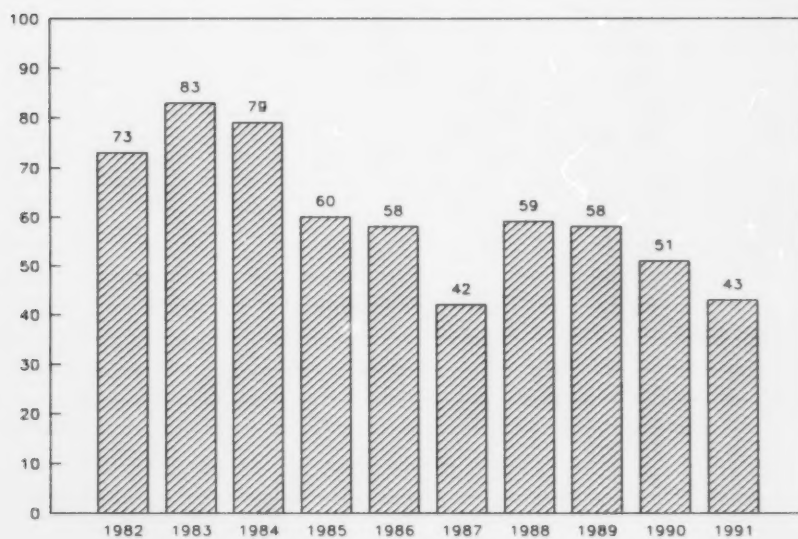


Number of Fires Per 1,000 Persons

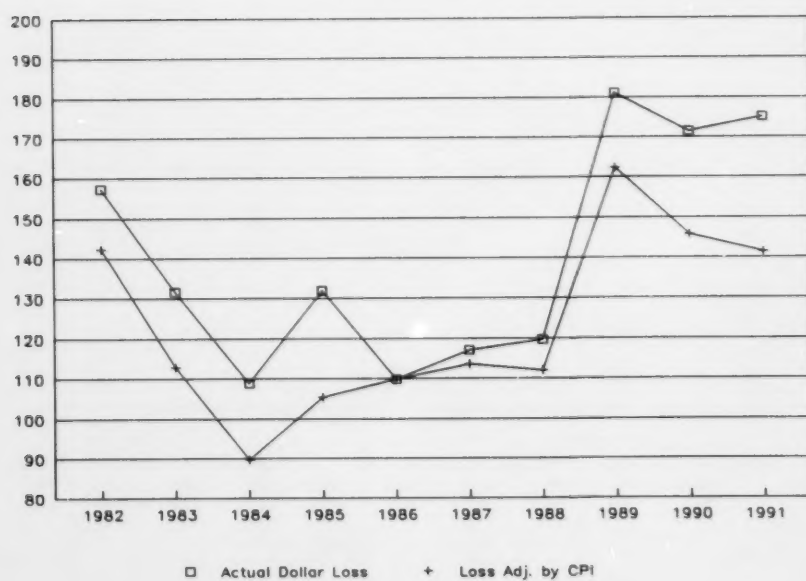


Fire Losses in British Columbia, 1991

Fire Fatalities

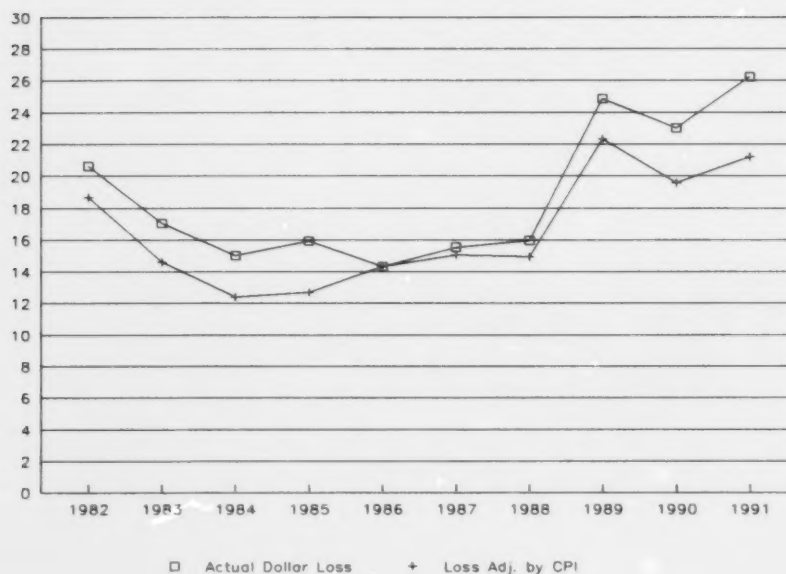


Actual and Adjusted Dollar Losses
(in millions)

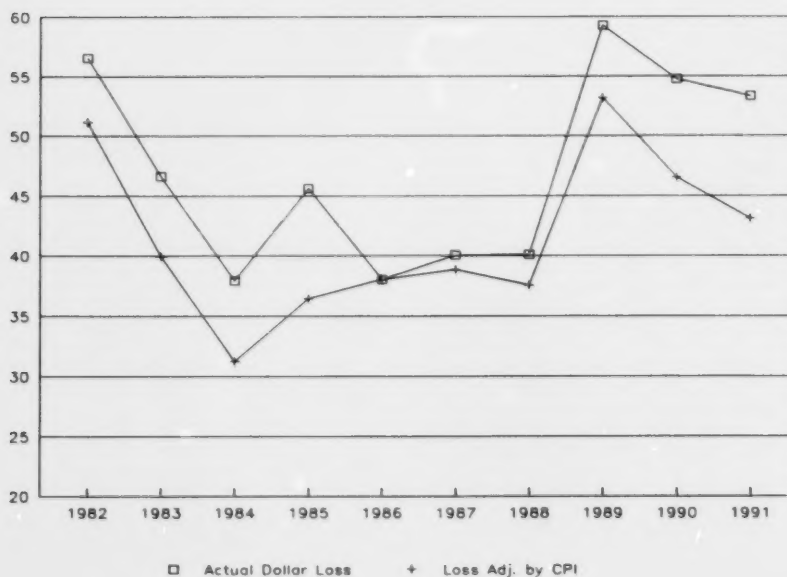


Fire Losses in British Columbia, 1989

Actual and Adjusted Average Loss Per Fire
(in thousands)



Actual and Adjusted Per Capita Loss



Fire Losses in Municipal Areas

Loc. Code	Municipality	Population	Fires	Injured	Fatalities	\$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
CAR	Armstrong	3,200	13	0	0	583,117	44,855	182.22	4.06
CCA	Castlegar	6,579	14	1	0	18,214	1,301	2.77	2.13
CCL	Colwood	13,468	15	0	0	70,163	4,678	5.21	1.11
CCO	Courtenay	11,652	28	0	0	127,990	4,571	10.98	2.40
CCR	Cranbrook	16,447	21	1	0	948,435	45,164	57.67	1.28
CDA	Dawson Creek	10,981	35	2	0	567,347	16,210	51.67	3.19
CDU	Duncan	4,301	20	0	0	170,368	8,518	39.61	4.65
CEN	Enderby	2,128	13	2	0	801,554	61,658	376.67	6.11
CFE	Fernie	5,012	5	0	0	5,464	1,093	1.09	1.00
CGF	Grand Forks	3,610	16	0	0	1,185,005	74,063	328.26	4.43
CGR	Greenwood	725	3	0	0	83,318	27,773	114.92	4.14
CJO	Fort St. John	14,156	55	1	0	697,318	12,679	49.26	3.89
CKA	Kamloops	67,057	172	22	1	3,529,208	20,519	52.63	2.56
CKE	Kelowna	75,950	135	1	1	2,055,403	15,225	27.06	1.78
CKI	Kimberley	6,531	16	2	0	510,833	31,927	78.22	2.45
CLA	Langley	66,040	41	9	1	319,699	7,798	4.84	0.62
CME	Merritt	6,253	14	1	0	271,388	19,385	43.40	2.24
CNA	Nanaimo	60,129	119	2	3	1,256,083	10,555	20.89	1.98
CNE	Nelson	8,760	28	2	0	165,928	5,926	18.94	3.20
CNO	N. Vancouver City	38,436	76	5	0	991,913	13,051	25.81	1.98
CNW	New Westminster	43,585	90	2	0	498,484	5,539	11.44	2.06
CPA	Port Alberni	18,403	35	1	0	460,313	13,152	25.01	1.90
CPC	Port Coquitlam	36,773	69	2	1	2,059,806	29,852	56.01	1.88
CPE	Penticton	27,258	56	0	0	2,148,956	38,374	78.84	2.05
CPG	Prince George	69,653	229	4	6	7,138,013	31,170	102.48	3.29
CPO	Port Moody	17,712	42	3	0	497,586	11,847	28.09	2.37
CPR	Prince Rupert	16,620	36	0	1	1,930,733	53,631	116.17	2.17
CQU	Quesnel	8,179	39	1	0	697,039	17,873	85.22	4.77
CRE	Revelstoke	7,729	12	0	0	155,301	12,942	20.09	1.55
CRO	Roseland	3,557	1	0	0	500	500	0.14	0.28
CTR	Trail	7,919	13	0	0	156,500	12,038	19.76	1.64
CVA	Vancouver City	471,844	1,431	119	7	31,733,864	22,176	67.25	3.03
CVE	Vernon	23,514	48	0	1	1,300,741	27,099	55.32	2.04
CVI	Victoria	71,228	203	16	5	1,699,801	8,373	23.86	2.85
CWI	Williams Lake	10,385	34	2	0	535,121	15,739	51.53	3.27
CWR	White Rock	16,314	24	0	0	400,823	16,701	24.57	1.47
DAB	Abbotsford	18,864	68	7	0	1,369,074	20,133	72.58	3.60
DBU	Burnaby	158,858	378	14	1	6,242,590	16,515	39.30	2.38
DCA	Campbell River	21,175	64	11	0	2,337,708	36,527	110.40	3.02
DCE	Central Saanich	13,684	21	0	0	72,321	3,444	5.29	1.53
DCH	Chilliwack	49,531	141	3	1	1,933,939	13,716	39.05	2.85
DCO	Coldstream	7,999	6	0	0	182,209	30,368	22.78	0.75
DCQ	Coquitlam	84,021	151	5	0	1,268,620	8,401	15.10	1.80
DDE	Delta	88,978	149	7	0	1,747,571	11,729	19.64	1.67
DEL	Elkford	2,846	3	0	0	109,254	36,418	38.39	1.05
DES	Esquimalt	16,192	19	4	0	198,961	10,472	12.29	1.17
DHH	Hudson Hope	985	3	0	0	21,000	7,000	21.32	3.05
DHO	Houston	3,628	2	0	0	8,660	4,330	2.39	0.55
DKE	Kent	4,322	10	0	0	209,476	20,948	48.47	2.31

Fire Losses in British Columbia, 1991

Loc. Code	Municipality	Population	Fires	Injured	Fatalities	\$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
DKI	Kitimat	11,305	38	5	1	823,701	21,676	72.86	3.36
DLA	Langley District	66,040	184	11	1	2,508,955	13,636	37.99	2.79
DMA	Mackenzie	5,796	9	0	0	352,995	39,222	60.90	1.55
DMI	Mission	26,202	65	2	0	1,482,262	22,804	56.57	2.48
DMR	Maple Ridge	48,422	138	8	0	2,927,332	21,213	60.45	2.85
DMT	Matsqui	68,064	162	25	0	2,517,032	15,537	36.98	2.38
DNC	North Cowichan	21,373	29	0	0	1,538,593	53,055	71.99	1.36
DNS	North Saanich	9,645	9	3	0	57,660	6,407	5.98	0.93
DNV	N. Vancouver Dist	75,157	108	3	0	2,333,598	21,607	31.05	1.44
DOB	Oak Bay	17,815	52	0	1	208,841	4,016	11.72	2.92
DPE	Peachland	3,459	22	0	0	17,109	778	4.95	6.36
DPH	Port Hardy	5,082	9	0	0	59,352	6,595	11.68	1.77
DPI	Pitt Meadows	11,147	24	1	0	989,287	41,220	88.75	2.15
DPR	Powell River	12,991	31	5	0	507,084	16,358	39.03	2.39
DRI	Richmond	126,624	175	6	1	5,177,353	29,585	40.89	1.38
DSA	Saanich	95,577	139	5	0	1,661,277	11,952	17.38	1.45
DSD	Sparwood	4,211	20	0	0	14,941	747	3.55	4.75
DSL	Summerland	9,253	10	0	0	1,298,428	129,843	140.33	1.08
DSM	Salmon Arm	12,115	32	0	0	192,703	6,022	15.91	2.64
DSP	Spallumcheen	4,719	3	0	0	226,850	75,617	48.07	0.64
DSQ	Squamish	11,709	42	1	0	357,193	8,505	30.51	3.59
DST	Stewart	1,151	12	2	0	731,673	60,973	635.68	10.43
DSY	Surrey	245,173	462	32	0	8,379,370	18,137	34.18	1.88
DTE	Terrace	11,433	22	0	1	257,613	11,710	22.53	1.92
DTU	Tumbler Ridge	4,650	11	1	0	177,346	16,122	38.14	2.37
DWH	Whistler	4,459	19	0	0	3,522,734	185,407	790.03	4.26
DWV	West Vancouver	38,783	90	1	0	1,037,273	11,525	26.75	2.32
TCO	Comox	8,253	7	0	0	824,104	117,729	99.86	0.85
TCR	Creston	4,205	10	0	0	258,450	25,845	61.46	2.38
TGO	Golden	3,721	6	0	0	2,074,367	345,728	557.48	1.61
THO	Hope	3,147	7	0	0	53,539	7,648	17.01	2.22
TLA	Ladysmith	4,875	9	0	0	149,866	16,652	30.74	1.85
TME	Metchosin	4,232	4	0	0	245,269	61,317	57.96	0.95
TPA	Parksville	7,306	5	0	0	39,556	7,911	5.41	0.68
TPR	Princeton	2,796	6	0	0	112,621	18,770	40.28	2.15
TSI	Sidney	10,082	19	3	0	154,609	8,137	15.34	1.88
TSM	Smithers	5,029	11	0	0	1,032,535	93,867	205.32	2.19
TVR	View Royal	5,925	13	1	0	315,448	24,265	53.24	2.19
VAS	Ashcroft	1,714	1	0	0	2,208	2,208	1.29	0.58
VBE	Belcarra	686	1	0	0	587	587	0.86	1.46
VBU	Burns Lake	1,682	7	1	0	31,500	4,500	18.73	4.16
VCA	Cache Creek	1,007	1	0	0	500	500	0.50	0.99
VCD	Chetwynd	2,843	8	0	0	150,717	18,840	53.01	2.81
VCU	Cumberland	2,220	4	0	0	67,359	16,840	30.34	1.80
VFL	Fraser Lake	1,302	3	0	0	1,600	533	1.23	2.30
VFO	Fort Nelson	3,804	22	1	0	547,862	24,903	144.02	5.78
VFR	Fruitvale	2,062	4	0	0	56,485	14,121	27.39	1.94
VGI	Granisle	803	1	0	0	1,000	1,000	1.25	1.25
VGL	Gibsons Landing	3,138	11	0	0	246,698	22,427	78.62	3.51
VGO	Gold River	2,166	1	0	0	2,000,000	2,000,000	923.36	0.46

Fire Losses in British Columbia, 1991

Loc. Code	Municipality	Population	Fires	Injured	Fatalities	\$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
VHA	Hazelton	339	4	0	0	46,045	11,511	135.83	11.80
VHM	100 Mile House	1,866	5	0	0	14,245	2,849	7.63	2.68
VIN	Invermere	2,207	1	0	0	200	200	0.09	0.45
VKA	Kaslo	863	3	0	0	6,702	2,234	7.77	3.48
VKE	Keremeos	933	2	0	0	2,900	1,450	3.11	2.14
VLB	Lions Bay	1,328	1	1	0	175,000	175,000	131.78	0.75
VLC	Lake Cowichan	2,241	7	0	0	204,711	29,244	91.35	3.12
VLI	Lillooet	1,782	12	0	0	1,036,738	86,395	581.78	6.73
VLL	Logan Lake	2,379	2	0	0	5,324	2,662	2.24	0.84
VLU	Lumby	1,265	4	0	0	89,971	22,493	71.12	3.16
VLV	Lytton	335	1	0	0	7,856	7,856	23.45	2.99
VMA	Masset	1,476	1	0	0	608	608	0.41	0.68
VMB	McBride	580	3	0	0	771	257	1.33	5.17
VMI	Midway	611	1	0	0	1,200	1,200	1.96	1.64
VMO	Montrose	1,197	1	0	0	130,782	130,782	109.26	0.84
VNA	Nakusp	1,374	5	0	0	328,500	65,700	239.08	3.64
VOL	Oliver	3,743	5	0	0	134,663	26,933	35.98	1.34
VOS	Osoyoos	3,403	6	0	0	26,100	4,350	7.67	1.76
VPC	Pouce Coupe	832	2	0	0	1,235	618	1.48	2.40
VPD	Port Edward	739	1	0	0	34,900	34,900	47.23	1.35
VPE	Pemberton	502	3	0	0	25,936	8,645	51.67	5.98
VPL	Port Clements	483	3	1	0	90,565	30,188	187.51	6.21
VPM	Port McNeill	2,641	8	0	0	18,568	2,321	7.03	3.03
VPO	Port Alice	1,371	2	0	0	15,382	7,691	11.22	1.46
VQB	Qualicum Beach	4,418	4	0	0	122,262	30,566	27.67	0.91
VRH	Radium Hot Springs	395	2	0	0	250,200	125,100	633.42	5.06
VSD	Sayward	406	1	0	0	7,500	7,500	18.47	2.46
VSE	Sechelt	6,123	8	0	0	125,132	15,642	20.44	1.31
VSJ	Salmo	1,069	9	1	0	336,107	37,345	314.41	8.42
VSL	Slocan	263	1	0	0	1,469	1,469	5.59	3.80
VTE	Telkwa	959	2	0	0	9,062	4,531	9.45	2.09
VTO	Tofino	1,103	3	0	0	442,789	147,596	401.44	2.72
VTR	Taylor	821	6	1	0	173,959	28,993	211.89	7.31
VVA	Valemount	1,128	5	0	0	54,900	10,980	48.67	4.43
VVF	Vanderhoof	4,023	15	0	0	4,943,141	329,543	1,228.72	0.73
VWA	Warfield	1,814	2	0	0	7,075	3,538	3.90	1.10
VZE	Zeballos	220	4	0	1	231,000	57,750	1,050.00	18.18

Note: Municipalities not included did not report fires in 1991.

Fire Losses in Non-Municipal Areas

Loc. Code	Community	Fires	Injured	Fatalities	\$ Loss	Loss/Fire
Non-Municipal Areas With Fire Protection						
NAL	Anahim Lake	1	0	0	20,000	20,000
NBA	Barrier	3	0	0	24,658	8,219
NBB	Bella Bella	1	0	0	12,000	12,000
NBC	Beaver Creek	4	0	0	87,927	21,982
NBG	Burns Lake	4	0	0	112,730	28,183
NBH	Balfour/Harrop	3	0	0	170,746	56,915
NBI	Bowen Island	2	0	0	146,200	73,100
NBJ	Bella Coola	4	0	0	49,510	12,378
NBM	Beaverly	1	0	0	165,000	165,000
NBO	Boston Bar	2	0	0	4,158	2,079
NBP	Blackpool	3	0	0	53,500	17,833
NBT	Britannia Beach	2	0	0	3,305	1,653
NBU	Bouchie Lake	1	0	0	5,717	5,717
NBV	Blue River	3	2	0	125,431	41,810
NBW	Bowhorn Bay	2	0	0	20,720	10,360
NBX	Barlow Creek	8	0	0	126,478	15,810
NCA	Campbell River	3	0	0	13,400	4,467
NCB	Cowichan Bay	10	0	0	76,466	7,647
NCC	Cherry Creek (Van.Isl.)	1	0	0	5,000	5,000
NCE	Creston	12	0	0	94,260	7,855
NCF	Canal Flats	4	0	0	32,050	8,013
NCH	Coal Harbour	1	0	0	90,000	90,000
NCI	Celista	3	0	0	56,000	18,667
NCJ	Crescent Valley	4	0	0	7,142	1,786
NCK	Charlie Lake	1	0	0	194,013	194,013
NCM	Comox	2	0	0	127,000	63,500
NCN	Canyon Lister	4	0	0	37,325	9,331
NCO	Coombs	2	0	0	25,611	12,806
NCQ	Courtenay	6	0	0	66,838	11,140
NCS	Cassiar	1	0	0	24,000	24,000
NCX	Clearwater	6	0	0	192,800	32,133
NDA	Dawson Creek	7	1	0	172,630	24,661
NDU	Duncan	2	0	0	8,579	4,290
NDW	Dashwood	1	0	0	5,019	5,019
NER	Errington	3	0	0	5,508	1,836
NFB	Fanny Bay	2	0	0	65,400	32,700
NFG	Forest Grove	1	0	0	3,000	3,000
NFH	Fairmont Hot Springs	2	0	0	14,000	7,000
NFN	Fort Nelson	15	6	0	2,329,660	155,311
NFT	Ferndale-Tabor	1	0	0	10,000	10,000
NGB	Gillies Bay	4	0	0	11,100	2,775
NGE	Genelle	2	0	0	21,673	10,837
NGI	Gabriola Island	6	1	0	348,833	58,139
NGN	Gibsons	4	2	0	258,599	64,650
NGR	Grand Forks	4	0	0	152,649	38,162
NGS	Galiano Island	2	0	0	17,723	8,862

Fire Losses in British Columbia, 1991

Loc. Code	Community	Fires	Injured	Fatalities	\$ Loss	Loss/Fire
NHE	Hedley	1	0	0	30,000	30,000
NHG	Hagensborg	2	0	0	122,000	61,000
NHI	Hornby Island	3	1	0	29,550	9,850
NHM	Halfmoon Bay	1	0	0	65,000	65,000
NHN	Hixon	1	0	0	1,472	1,472
NHR	Hosmer	2	0	1	88,000	44,000
NJA	Fort St. James (rural)	3	0	0	2,200	733
NKA	Kaleden	3	0	0	7,500	2,500
NKB	Kootenay Boundary (rural)	7	0	0	61,064	8,723
NKP	Kamloops	7	1	0	98,594	14,085
NKR	Kersley	1	0	0	7,000	7,000
NKS	Kaslo	1	0	0	1,000	1,000
NKV	Kitamaat Village	1	0	0	23,200	23,200
NLF	Langford	36	2	0	42,171	1,171
NLK	Loon Lake	1	0	0	69,635	69,635
NLL	Lac La Hache	1	0	0	3,000	3,000
NLR	Lumby	1	0	0	3,852	3,852
NLT	Little Fort	1	1	0	61,000	61,000
NMA	Malahat	1	0	0	33	33
NMB	Mill Bay	4	0	0	271,500	67,875
NMI	Mayne Island	2	0	0	164,000	82,000
NMK	Malakwa	2	0	0	30,398	15,199
NMR	Lower Nicola	6	0	0	168,037	28,006
NMT	Moricietown	1	0	0	6,000	6,000
NNA	Nanoose Bay	3	0	0	17,533	5,844
NNC	North Cedar	3	2	0	99,028	33,009
NND	Nelson	7	0	0	7,155	1,022
NNE	Northside	1	0	0	5,205	5,205
NNF	North Fraser	5	0	0	262,808	52,562
NNI	Nicholson	2	0	0	176,400	88,200
NNO	North Oyster	1	0	0	4,294	4,294
NNP	North Pender Island	5	0	0	311,026	62,205
NOE	108 Mile House	1	0	0	4,000	4,000
NOL	Okanagan Landing	5	0	0	36,000	7,200
NOP	Otter Point	4	1	0	33,315	8,329
NOR	Oyster River	2	0	0	145,000	72,500
NOS	Keremeos	1	0	0	5,000	5,000
NPA	Passmore	3	0	0	4,069	1,356
NPB	Pavilion	1	0	0	437,000	437,000
NPC	Pass Creek	1	0	0	996	996
NPD	Parksville	1	0	0	298,416	298,416
NPE	Penticton	9	0	0	678,090	75,343
NPF	Port Alberni	2	0	0	550	275
NPK	Popkum	2	0	0	90,039	45,020
NPR	Port Renfrew	1	0	0	2,100	2,100
NPV	Pineview	1	0	0	3,500	3,500
NQC	Queen Charlotte City	2	0	1	28,734	14,367
NQI	Quadra Island	3	2	0	6,600	2,200
NQR	Quesnel	16	0	0	404,127	25,258
NRC	Roberts Creek	1	0	0	40,000	40,000
NRD	Ranchero/Deep Creek	2	0	0	35,000	17,500

Fire Losses in British Columbia, 1991

Loc. Code	Community	Fires	Injured	Fatalities	\$ Loss	Loss/Fire
NRH	Radium Hot Springs	4	0	0	27,425	6,856
NRO	Robson	1	0	0	802	802
NSB	Sasamat	1	0	0	10,000	10,000
NSC	Scotch Creek	1	0	0	5,000	5,000
NSE	Shawnigan Lake	5	0	0	182,765	36,553
NSF	Salt Spring Island	12	0	0	223,050	18,588
NSH	South Hazelton	2	0	0	68,000	34,000
NSJ	Sicamous	9	2	0	316,972	35,219
NSM	Sahtlam	1	0	0	129,000	129,000
NSN	Shalath	1	0	0	70,000	70,000
NSO	Sproat Lake	5	0	0	427,609	85,522
NSQ	Sandspit	2	0	0	46,000	23,000
NSR	Shirley	4	0	0	444,075	111,019
NSV	Savona	2	0	0	19,588	9,794
NSW	Swan Lake	7	0	0	186,072	26,582
NSZ	Sooke	9	0	0	343,092	38,121
NTA	Squamish	1	0	0	2,898	2,898
NTH	Thornhill	8	0	0	272,015	34,002
NTO	Tomslake	1	0	0	19,000	19,000
NTY	Tarry's	1	0	0	1,700	1,700
NUE	University Endowment Lands	27	1	0	55,571	2,058
NVV	Vavenby	3	0	0	89,000	29,667
NWB	Williams Lake Indian Res.	1	0	0	9,000	9,000
NWC	Winlaw	6	0	0	35,124	5,854
NWE	Westbank	7	0	0	128,890	18,413
NWI	Windermere	1	0	0	71,800	71,800
NWK	Williams Lake	7	1	0	77,236	11,034
NWN	Winfield	2	0	0	15,936	7,968
NWO	Woss	2	0	0	150,750	75,375
NWP	Willis Point	1	0	0	2,500	2,500
NYB	Sayward	4	0	0	109,000	27,250
RAC	Alberni-Clayoquot	10	0	0	50,972	5,097

Fire Losses in British Columbia, 1991

Loc. Code	Community	Fires	Injured	Fatalities	\$ Loss	Loss/Fire
Non-Municipal Areas With No Fire Protection (grouped together into respective regional districts)						
RBN	Bulkeley-Nechako	41	0	0	4,362,717	106,408
RCA	Capital	12	0	0	39,778	3,315
RCB	Cariboo	99	3	1	3,616,366	36,529
RCC	Central Coast	6	0	0	108,143	18,024
RCF	Central Fraser Valley	10	0	0	39,141	3,914
RCK	Central Kootenay	34	2	0	1,426,461	41,955
RCL	Columbia-Shuswap	30	2	0	581,977	19,399
RCO	Central Okanagan	33	0	0	188,613	5,716
RCS	Comox-Strathcona	26	1	0	216,140	8,313
RCV	Cowichan Valley	11	0	0	355,781	32,344
RDA	Dewdney-Allouette	3	0	0	5,866	1,956
REK	East Kootenay	42	4	0	1,035,249	24,649
RFC	Fraser-Cheam	42	0	0	419,396	9,986
RFG	Fraser-Fort George	32	1	0	3,039,795	94,994
RFN	Fort Nelson-Liard	3	0	0	78,337	26,112
RGV	Greater Vancouver	8	0	0	21,722	2,715
RKI	Kitimat-Stikine	7	0	2	499,831	71,404
RKO	Kootenay Boundary	11	0	0	252,118	22,920
RMW	Mount Waddington	6	0	0	204,300	34,050
RNA	Nanaimo	13	0	0	205,015	15,770
RNO	North Okanagan	16	1	0	328,687	20,543
ROS	Okanagan-Similkameen	34	1	0	777,918	22,880
RPL	Peace River-Liard	83	2	2	2,609,796	31,443
RPR	Powell River	7	0	0	313,239	44,748
RSC	Skeena-Queen Charlotte	7	0	0	145,283	20,755
RSL	Squamish-Lillooet	20	0	0	275,056	13,753
RST	Stikine	1	0	0	0	0
RSU	Sunshine Coast	4	0	0	179,743	44,936
RTN	Thompson-Nicola	86	0	1	1,584,217	18,421

FIRE LOSSES AND CASUALTIES BY MONTH

Month	Fires	\$ Loss	Injured	Fatalities
January	674	\$18,152,824	33	1
February	570	12,911,122	30	3
March	636	13,145,635	40	9
April	683	21,986,857	50	5
May	632	14,139,182	38	3
June	584	10,703,540	23	4
July	710	20,544,247	40	3
August	662	13,127,828	34	0
September	592	12,175,738	22	1
October	748	15,233,367	33	7
November	600	10,914,823	33	5
December	580	11,955,858	40	2
	7,671	\$174,991,021	416	43

STATUS, AGE AND GENDER OF CASUALTY

	Fires	Injured	Fatalities
Status of Casualty			
Firefighter	82	113	
Civilian	261	303	43
Age of Casualty			
Unknown	20	20	4
Birth - 2 years	6	2	5
3 - 4 years	4	2	3
5 - 6 years	3	1	3
7 - 8 years	1	1	
9 - 10 years	2	1	1
11 - 12 years	3	3	
13 - 14 years	8	9	1
15 - 16 years	4	4	
17 - 18 years	8	9	
19 - 20 years	15	16	1
21 - 30 years	89	97	2
31 - 40 years	111	124	5
41 - 50 years	65	67	3
51 - 60 years	31	32	3
61 - 70 years	21	17	5
71 - 80 years	12	9	4
81 - 90 years	5	2	3
Gender of Casualty			
Male	265	312	28
Female	100	104	15

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
AO	Act or Omission				
AO000	Act or omission unknown	1,342	80	11	56,517,749
	Arson or Set Fire				
AO011	Arson or set fire - financial gain	23	2		3,754,722
AO012	Arson or set fire - cover-up crime	137	5		3,730,954
AO013	Arson or set fire - political, religious, riot, civil commotion	2	3		4,000
AO014	Arson or set fire - revenge, spite	37	3	1	1,813,496
AO015	Arson or set fire - mental disorder, attempted suicide, suicide	17	4	1	1,304,569
AO016	Arson or set fire - vandalism, mischief	503	3		3,201,469
AO017	Arson or set fire - intimidation	4			192,000
AO018	Arson or set fire - motive unknown or unclassified	489	29	1	14,636,606
AO019	Suspected set fire - motive unknown or unclassified	615	28		16,898,651
	Subtotal	1,827	77	3	45,536,467
	Misuse of Source of Ignition				
AO021	Smokers' material	345	36	9	3,716,141
AO022	Thawing	10			246,328
AO023	Inadequate control of "open" fire	43	2		478,811
AO024	Child playing with matches, lighter, etc.	109	7		2,053,900
AO025	Welding or cutting too close	64	3		1,667,262
AO026	Torch too close	52	6		1,268,177
AO029	Misuse of source of ignition - unclassified	48	3		466,329
	Subtotal	671	57	9	9,896,948
	Misuse of Material Ignited				
AO031	Fuel spilled accidentally	29	4		1,950,072
AO032	Improper fuelling technique	11	2		205,610
AO033	Flammable liquid to kindle fire	2			4,041
AO034	Cleaning, washing parts	5			67,634
AO035	Improper container, metal	2			69,300
AO036	Improper container, plastic	1			75,000
AO037	Combustible placed too close to heat	78	16	1	1,944,304
AO038	Improper storage	34	5		928,329
AO039	Misuse of material ignited - unclassified	29	1		2,622,413
	Subtotal	191	28	1	7,866,703
	Mechanical or Electrical Failure				
AO041	Part failure, leak, break	731	18	1	5,389,270
AO042	Automatic control failure	59			1,858,330
AO043	Manual control failure	5	2		10,756
AO044	Electrical short circuit	724	14		6,905,320
AO046	Part worn out	42	1		691,426
AO049	Mechanical or electrical failure - unclassified	340	8		4,907,028
	Subtotal	1,901	43	1	19,762,130

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
Construction, Design or Installation Deficiency					
AO051	Design deficiency	19		2	288,003
AO052	Construction deficiency	32	1		486,574
AO053	Installed too close to combustible	62	2		828,757
AO054	Other installation deficiency	18	1		185,240
AO055	Overfusing	2			81,083
AO056	Suspected faulty connections involving aluminum wiring	8			57,778
AO057	Suspected faulty connections involving copper wiring	6			210,935
AO059	Construction design or installation deficiency - unclassified	20	3		226,400
	Subtotal	167	7	2	2,364,770
Misuse of Equipment					
AO061	Overfuelling	5	1		12,600
AO069	Misuse of equipment - unclassified	44	4		497,721
	Subtotal	49	5		510,321
Human Failing					
AO071	Asleep	32	9	2	690,950
AO072	Temporary loss of judgement suspected (includes panic)	10			21,024
AO073	Physical or mental disability	3			4,631
AO074	Accident	240	11		8,925,510
AO075	Suspected impairment by use of alcohol, drugs or medication	32	7	7	826,638
AO076	Asleep - suspected use of alcohol, drugs or medication	15	2	1	188,826
AO077	Ignorance of hazard	524	55	5	7,953,141
AO078	Distracted, preoccupied	251	19		1,952,566
AO079	Human failing - unclassified	126	9		2,063,260
	Subtotal	1,233	112	15	22,626,546
Vehicle Accident					
AO081	Automobile accident	46			1,331,033
AO082	Industrial truck accident	3	1		479,244
AO083	Other road vehicle accident	4			176,472
AO085	Watercraft accident	3	2		82,424
AO086	Aircraft accident	3			1,105,000
AO089	Vehicle accident - unclassified	17	2		158,698
	Subtotal	76	4	1	3,332,871
Miscellaneous Act or Omission					
AO091	Chimney fire (masonry)	45			121,684
AO092	Chimney fire (factory-built)	11			50,129
AO099	Misc. act or omission unclassified	158	3		6,404,703
	Subtotal	214	3		6,576,516
	TOTALS	7,671	416	43	174,991,021

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
BH	Building Height				
BH000	Building height unknown	93			735,450
BH001	01 storey or 3m	1,740	97	15	60,055,761
BH002	02 stories or 6m	1,427	161	21	65,135,637
BH003	03 to 04 stories or 9m to 12m	497	73	5	18,570,227
BH004	05 to 06 stories or 15m to 18m	64	7		727,169
BH005	07 to 12 stories or 21m to 36m	56	6		3,461,276
BH006	13 to 24 stories or 40m to 73m	32	11		303,377
BH007	25 to 49 stories or 75m to 149m	16	5		156,028
BH009	Not applicable, e.g. vehicle outside, area, etc.	3,746	56	2	25,846,096
	TOTALS	7,671	416	43	174,991,021
FH	Form of Heat				
FH000	Form of heat unknown	3,155	116	15	77,615,500
FH001	Spark: Ember	248	5		5,171,822
FH002	Spark: Electrical	906	38	4	13,978,509
FH003	Spark: Static electrical	36	1		5,164,496
FH004	Direct flame, flue gases	1,441	108	5	37,514,787
FH005	Friction heat	60	1		741,337
FH006	Hot object, direct heat by conduction or radiation	1,285	92	5	22,993,640
FH007	Spontaneous ignition	81	2		1,562,630
FH008	Heat from smoker's material	360	48	14	4,738,878
FH009	Form of heat - unclassified	99	5		5,509,422
	TOTALS	7,671	416	43	174,991,021
FS	Fire Service				
FS000	Fire service unknown	1,179			7,949,125
FS001	Full time fire department	2,880	175	23	63,136,644
FS002	Volunteer fire department	750	32	5	31,250,644
FS003	Combined full time and volunteer fire dept.	2,495	187	11	59,369,792
FS004	Police acting as full time firefighters	16	4		116,276
FS005	Combined police and fire department	2			80,653
FS006	Combined police and volunteer firefighters	3			309,869
FS007	Fire service - contract to others	7			31,794
FS008	No fire service	315	17	4	12,142,058
FS009	Fire service - unclassified	24	1		604,166
	TOTALS	7,671	416	43	174,991,021
FU	Fuel or Energy				
FU000	Fuel or energy unknown	2,095	110	13	66,613,924
FU001	Coal, wood	725	17	2	21,299,382
FU002	Fuel, kerosene	110	5		4,396,864
FU003	Gasoline	1,030	35	4	13,725,819
FU004	Natural gas or other fuel gas	446	58	1	10,483,111
FU005	Cigarette, cigar, pipe, match, lighter	843	69	16	15,417,926

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
FU006	Electricity	1,748	94	6	21,188,888
FU007	Lightning	18	1		440,586
FU008	Exposure fire	307	5	1	13,817,560
FU009	Fuel or energy - unclassified	349	22		7,606,961
TOTALS		7,671	416	43	174,991,021

ID Initial Detection

ID000	Initial detection unknown	1,251	6		8,730,375
ID001	Smoke alarm device	207	30		3,564,455
ID002	Smoke detector device	75	11		2,073,615
ID003	Heat alarm device	20			1,005,098
ID004	Heat detector device	23	10		1,337,107
ID005	Automatic sprinkler system	65	2		3,770,199
ID006	Automatic system - other than sprinkler	10			1,256,500
ID007	Visual sighting	5,906	347	43	149,514,674
ID008	None	64			1,263,967
ID009	Initial detection - unclassified	50	10		2,475,031
TOTALS		7,671	416	43	174,991,021

IG Igniting Object (Source of Ignition)

IG000	Igniting object unknown	2,116	111	14	70,008,717
IG001	No igniting object	125	4		2,897,000
Subtotal		2,241	115	14	72,905,717

Cooking Equipment

IG002	Stove, range: Top burner area - fire in pan	315	25	1	2,796,683
IG003	Stove, range: Top burner area - fire in deep fat fryer or pot	146	23		1,612,421
IG004	Stove, range: Top burner area - other circumstances	94	13		902,999
IG005	Oven of stove, range	50	2		250,100
IG006	Chafing dish, fondue	1	1		30,000
IG007	Deep fat fryer - separate appliance	13			511,154
IG011	Fry pans, grills not on stove	8			32,713
IG012	Other cooking unit	20			89,905
IG013	Open fired broiler - fixed type	5			28,009
IG014	Open fired broiler - portable type	39	7		89,673
IG015	Food warming appliance	42	1		414,034
IG016	Toaster, waffle iron	13	1		328,498
IG019	Cooking equipment - unclassified	31	3		1,251,960
Subtotal		777	76	1	8,338,149

Heating Equipment

IG021	Central heating unit	84	10	1	3,830,490
IG022	Service water heater	37	6	1	1,793,156
IG023	Space heater - stationary	111	12		2,878,173
IG024	Space heater - portable	49	13	3	580,972
IG025	Fireplace	88	1		695,404
IG026	Chimney, masonry	76	1		1,024,614

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
IG027	Flue pipe, vent connector	23			525,055
IG028	Chimney, factory-built, metal	56	1		1,257,831
IG029	Heating equipment - unclassified	36	1		616,340
	Subtotal	560	45	5	13,202,035
	Appliances				
IG031	Television	13	3		465,429
IG032	Radio, phonograph, tape-recorder	7			64,110
IG033	Clothes dryer	95	1		2,408,938
IG034	Washing machine	4			21,528
IG035	Air conditioning and refrigeration: Central	4			19,946
IG036	Air conditioning or dehumidifier: Individual	4			5,925
IG037	Refrigeration unit: Individual	19			693,337
IG038	Pressing iron, ironing machine	4			121,744
IG039	Portable generator	4	1		77,200
IG041	Lawnmower	7			5,131
IG043	Electric blanket, heating pad	5			101,753
IG044	Incinerator	8			27,324
IG049	Appliance - unclassified	42			655,665
IG051	Electrical wiring, cable: Permanent	460	5		4,577,360
IG052	Transformer	14	3		627,219
IG053	Switch gear	8			300,114
IG054	Panelboard, switchboard	24	1		365,571
IG055	Switch, outlet	29	2		454,037
IG056	Electric, wiring, cable: Temporary	76	3		3,079,759
IG057	Signal, telephone equipment	2			593
IG058	Battery, rectifier, charger	153	1		552,650
IG059	Electrical distribution equipment - unclassified	46			133,465
	Subtotal	1,028	20	0	14,758,798
	Electrical Distribution Equipment				
IG061	Electric motor: 1 hp and over	44			272,533
IG062	Electric motor: Under 1 h.p.	8	1		101,550
IG063	Electronic equipment: Communications	3			45,200
IG065	Incandescent lamp	46	7	4	2,668,915
IG066	Fluorescent lamp	4			163,062
IG069	Other electrical equipment - unclassified	43	2		1,796,340
	Subtotal	148	10	4	5,047,600
	Other Electrical Equipment				
IG071	Smoker's material: Cigarette, cigar, pipe, matches, lighter	406	49	15	5,825,644
IG072	Match, lighter: Not used in conjunction with smoking	674	39	2	15,457,996
IG073	Lamp	11	1		174,630
IG074	Candle, taper	48	7		697,111
IG075	Cutting torch	32	1		545,936
IG076	Welding equipment	53			1,568,378
IG077	Torch: Other than cutting, welding	74	10		1,507,700

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
IG078	Hot ashes, embers	73	2		1,483,156
IG079	Smoker's material of "open" flame - unclassified	37	1	1	405,635
	Subtotal	1,408	110	18	27,666,186
	Exposure				
IG081	Structure: Attached	16			841,458
IG082	Structure: Detached	95	3	1	2,302,693
IG083	Lumber yard	7			125,674
IG084	Outside storage container, tank	4			8,700
IG085	"Open" fire	58	3		624,009
IG086	Forest, tree	6			5,551
IG087	Grass, bush	26			193,456
IG089	Exposure - unclassified	128	4		9,057,851
	Subtotal	340	10	1	13,159,392
	Miscellaneous				
IG090	Internal combustion engine	804	13		4,168,357
IG091	Heat treatment equipment	16	8		1,042,380
IG092	Industrial oven	5			2,051,004
IG093	Printing equipment, photographic equipment	1			7,000
IG094	Explosive	4			71,775
IG095	Fireworks	42	1		497,172
IG096	Bearing, belting, conveyor, brake	21			74,868
IG097	Machinery, equipment: Commercial and industrial	33	4		1,202,907
IG098	Chemical reaction	45	1		1,156,602
IG099	Igniting object - unclassified	198	3		9,641,079
	TOTALS	7,671	416	43	174,991,021
IN	Incident Report				
IN006	Alarm fire: LAFC report updated by insurance report	1,404	94	12	48,770,185
IN007	No-alarm fire: LAFC report updated by insurance report	84	4		2,572,607
IN008	Alarm fire: Insurance report only	308			3,180,989
IN009	No-alarm fire: Insurance report only	856			4,469,003
IN010	Alarm fire: reported by LAFC only	4,792	311	30	11,110,126
IN011	No alarm fire: reported by LAFC only	227	7	1	4,888,111
	TOTALS	7,671	416	43	174,991,021
LV	Level Origin				
LV000	Level of origin unknown	213	3		9,177,369
LV001	Basement, sub-basement	470	63	4	15,215,012
LV002	Crawl space, under structure	54			1,531,081
LV003	Ground floor, grade level	2,370	204	29	91,104,814
LV004	2nd storey	466	51	7	17,074,886
LV005	3rd storey	118	23		1,233,113
LV006	4th to 12th story, inclusive	61	10	1	1,620,676

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
LV007	Over 12 storeys	8	2		20,350
LV008	Roof level, includes concealed roof space, attic	184	5		6,548,719
LV009	Level of origin - not applicable	3,727	55	2	31,465,001
TOTALS		7,671	416	43	174,991,021
MI	Material First Ignited				
MI000	Material first ignited unknown	2,290	118	11	68,686,617
MI001	Roof covering: Wood	64	1		1,929,539
MI002	Roof covering: Other than wood	24			1,641,580
MI003	Exterior wall covering, surface, finish	165	3		4,449,468
MI004	Exterior trim & appurtenance	28	2		906,985
MI005	Floor covering: Wood	47	2		1,698,860
MI006	Floor covering: Linoleum, tile, plastic	22	1		291,543
MI007	Floor covering: Carpet, rug	90	4	1	1,408,217
MI008	Structural component: Floor, ceiling, roof	85	2		2,825,334
MI009	Structural component: Wall	78	1		1,260,886
MI010	Interior wall covering: 104 wood, fibreboard (high density)	5	4		3,413,397
MI011	Interior wall covering: fibreboard (low density)	33	6	3	894,948
MI012	Interior wall covering: plastic	6			181,101
MI013	Ceiling covering: wood, fibreboard (high density)	30			2,974,223
MI014	Ceiling covering: fibreboard (low density)	9	1		70,483
MI015	Ceiling covering: plastic	3			226,074
MI016	Insulation: Wood product	23	1		1,235,580
MI017	Insulation: Plastic	46			384,791
MI018	Insulation: Mineral	20	1		181,486
MI019	Structural components, finish materials - unclassified	52	2		1,650,345
Subtotal		3,219	150	19	96,311,457
	Furniture, Furnishings				
MI021	Furniture (upholstered)	192	25	13	3,410,961
MI022	Furniture: Wood (not upholstered)	37	4	1	951,772
MI023	Furniture: Plastic (not upholstered)	3			46,412
MI024	Ironing board	1			34,974
MI025	Mattress, pillow	104	13	1	909,818
MI026	Bedding	110	25	1	2,323,140
MI027	Drapery	27			584,068
MI028	Broom, mop, brush	5			4,265
MI029	Furniture, furnishings - unclassified	25	2		259,482
Subtotal		504	69	16	8,524,892
	Clothing, Textiles				
MI031	Clothing: Cotton, on a person	29	2		208,451
MI032	Clothing: Wool, on a person	3	1		1,312
MI033	Clothing: Synthetic fibre, on a person	52	5		658,546
MI034	Fabric: Cotton	33	2		326,621

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
MI035	Fabric: Wool	4			15,390
MI036	Fabric: Synthetic fibre	30	1		226,468
MI038	Tarpaulin	7			18,850
MI039	Clothing, textiles - unclassified	40	1		568,680
	Subtotal	198	12		2,024,318
	Wood, Paper Products				
MI041	Wood	80	2		1,152,606
MI042	Wood shavings	83	4		3,987,967
MI044	Paper, packing material	69	5		2,056,449
MI045	Paper decoration	11			72,127
MI046	Wastepaper	62	1		441,341
MI047	Cardboard	69	10		2,607,802
MI048	Paper stock	89	2		2,359,879
MI049	Wood, paper products - unclassified	83	5		3,480,825
	Subtotal	546	29		16,158,996
	Flammable, Combustible Liquids				
MI051	Gasoline	766	32	4	10,876,018
MI052	Fuel oil	55	3		3,564,103
MI053	Combustible liquid: Flashpoint 100°F and over	67	1		6,511,362
MI054	Flammable liquid: Flashpoint less than 100°F	37	5		1,325,306
MI055	Paint, varnish	37	5	1	384,803
MI056	Cooking oil, fat	414	48	1	4,795,432
MI057	Tar, asphalt	9	2		35,366
MI058	Polish, wax	9	1		34,610
MI059	Flammable liquids - unclassified	68	9		2,859,677
	Subtotal	1,462	106	6	30,386,677
	Flammable Gases				
MI061	Natural gas	15	3		319,866
MI062	Propane/butane air mixture	34	8		216,025
MI063	Propane, butane, L.P.G	48	5		415,349
MI064	Anaesthetic gas	1			100
MI065	Acetylene	3			31,141
MI069	Flammable gases - unclassified	17	4		2,040,812
	Subtotal	118	20		3023293
	Chemicals, Plastics, Metals				
MI072	Cellulose nitrate	11	1		34,926
MI073	Plastics	167	4	1	1,632,201
MI074	Oxidizing material	1			159,781
MI075	Magnesium and alloys	3			8,775
MI077	Rubber, natural or synthetic	72			353,593
MI079	Chemicals - unclassified	29	2		273,264
	Subtotal	283	7	1	2,462,540
	Agricultural, Forestry Products				
MI081	Fibres	8			15,960
MI082	Grain, flour, starch	2			12,100
MI083	Hay, straw	25			1,569,844

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
MI084	Tree, shrub	68	2		277,432
MI085	Felled timber	3	1		53,500
MI086	Grass, brush, leaves	39	1		276,613
MI088	Christmas tree	3			98,408
MI089	Agricultural, forestry products - unclassified	7			80,910
	Subtotal	155	4		2,384,787
	Miscellaneous				
MI091	Coal, coke	4			2,600
MI092	Creosote deposits in chimney, flue	77			369,155
MI095	Insulation: Electric	474	5		998,659
MI096	Garbage, trash, rubbish	326	5	1	1,236,259
MI097	Oily rags	24			334,578
MI099	Miscellaneous material - unclassified	281	9		8,772,830
	Subtotal	1,186	19	1	13,714,081
	TOTALS	7,671	416	43	174,991,021

OA Area of Origin

OA000	Area of origin unknown	356	4	5	15,382,008
OA001	Hallway, corridor	64	6		3,707,743
OA002	Stairway, exterior	30			743,475
OA003	Stairway, interior	39			2,583,617
OA005	Lobby, entrance way	51	2	1	712,347
OA006	Elevator	7	1		76,000
OA009	Means of egress - unclassified	38			414,604
OA011	Large assembly area: Fixed seats	4			86,551
OA012	Large assembly area: Non-fixed seats	5	1		117,300
OA013	Small assembly area	20	3		655,217
OA014	Lounge, living room	385	52	14	11,381,319
OA015	Sales, show room area	13			1,073,952
OA016	Library, museum	1			1,500
OA017	Sports facility	6			380,900
OA019	Assembly, sales area - unclassified	9	1		126,395
OA021	Sleeping (under 5 occupants)	366	68	6	8,752,683
OA022	Sleeping (5 or more occupants)	5			368,483
OA023	Dining area	25	1	1	1,449,049
OA024	Bar, beverage area	3	1		37,332
OA025	Washroom, locker room	78	7	1	2,305,351
OA026	Office	34	3		3,767,829
OA027	Laboratory	6			53,300
OA028	Display windows	1			3,000
OA029	Printing, photographic reproduction	3	1		660,700
OA030	Electronic equipment communication room	1			200
OA031	Kitchen, cooking area	838	78	3	13,121,979
OA032	Laundry area	134	11	5	2,594,836
OA033	First-aid, treatment area	3	1		13,300
OA035	Electronic equipment room	13	1		660,980
OA036	Performance area	2			2,000
OA037	Backstage, dressing room	1			20,975

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
OA038	Process, manufacturing area	36	8		9,881,594
OA039	Function area - unclassified	48	9	1	2,024,215
OA041	Product storage area	39	7		3,559,584
OA042	Closet, lockers	41	10		2,478,946
OA043	Supplies, equipment area	39	6		1,382,920
OA044	Records storage area	1			50,200
OA045	Shipping, receiving area, mail room	9	2		2,525,215
OA046	Trash, rubbish area	25	1		546,589
OA047	Vehicle (garage)	191	12	1	4,811,754
OA048	Agricultural products storage	27	1		1,927,645
OA049	Storage area - unclassified	74	7		3,622,146
OA051	Dumbwaiter, conveyor shaft	6			31,000
OA052	Service shaft	1			7,563
OA054	Shipping, receiving area	2			90,200
OA055	Duct: Heating, air conditioning	8			60,514
OA056	Duct: Cooking, exhaust	4			12,769
OA057	Chimney: Masonry	76			586,616
OA058	Chimney: Factory built metal	41	1		735,237
OA059	Service facilities - unclassified	14	1		47,664
OA061	Machinery room	39	4		582,805
OA062	Heating equipment room	101	14	2	5,397,144
OA063	Transformer vault	14			203,093
OA064	Incinerator room	2			20,000
OA065	Maintenance shop	41	2		4,518,364
OA066	Paint shop	5			1,447,579
OA068	Projection room	1			5,000
OA069	Service and equipment area - unclassified	24			4,957,953
OA071	Crawl space	37	2		1,348,777
OA072	Exterior balcony	44	5	1	749,406
OA073	Ceiling and floor assembly	34	1		2,174,634
OA074	Ceiling and roof/ceiling space	73			5,599,473
OA075	Wall Assembly	33	2		679,404
OA076	Exterior wall	147	5		3,269,152
OA077	Exterior roof	73	4		2,682,255
OA078	Awning, canopy	3			77,300
OA079	Structural area - unclassified	35	1		1,172,660
OA082	Vehicle: Engine area	1,491	11	1	7,425,585
OA083	Vehicle: Fuel area	210	14		1,170,608
OA084	Vehicle: Control area	202	1		1,198,091
OA085	Vehicle: Passenger area	594	10		4,116,895
OA086	Vehicle: Cargo area	132	5		1,823,862
OA089	Vehicle area - unclassified	303	3		2,080,122
OA091	Open area	190	5	1	897,255
OA092	Court, patio, terrace	53	5		361,357
OA093	Parking area	56	4		1,457,807
OA094	Storage area	63	3		2,232,173
OA095	Trash, rubbish area	257	1		1,668,355
OA099	Outside area - unclassified	191	7		10,036,616
TOTALS		7,671	416	43	174,991,021

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR	Property Classification				
PR112	Motion picture theatre	1			50
PR121	Bowling alley	1			500
PR123	Ice rink	4			3,700
PR124	Amusement centre	1			200,000
PR125	Swimming facility	3			2,800
PR126	Ballroom, gymnasium	4			76,300
PR128	Arena, stadium	1			200
PR129	Amusement, recreation place - unclassified	7	1		114,950
PR131	Nursery school, kindergarten	1			55
PR132	Elementary school	26			648,095
PR133	High school	44			1,112,347
PR135	School, industrial trade, technical	3			16,500
PR138	College, university	7			36,600
PR139	Educational facility - unclassified	4			821,600
PR141	Church, chapel	6			101,500
PR143	Church hall	3			200,700
PR144	Funeral parlour	4			407,200
PR151	City club	5			552,220
PR152	Country club	2			2,050
PR153	Yacht club	1			6,000
PR159	Social, sport club - unclassified	7			419,754
PR161	Library	1			1,000
PR164	Historic building	1			10,000
PR169	Library, museum - unclassified	3			1750
PR171	Restaurant	69	8	1	2,791,371
PR172	Night club	6	1		782,100
PR173	Tavern	4			957,500
PR174	Lunchroom, drive-in	7			31,000
PR179	Food or beverage establishment - unclassified	17			165,238
PR182	Heliport, helistop	1			500
PR183	Bus terminal	1			250
PR186	Elevated station	1			300
PR191	Court room	1			2,000
PR199	Miscellaneous assembly - unclassified	2			19,603
PR211	Prison: Penitentiary for men	6			7,850
PR212	Prison: Penitentiary for women	3	3		5,500
PR214	Reformatory, juvenile detention home	2			500,150
PR215	Adult detention camp	1			4,000
PR217	Police station, with lock-up facilities	1			20
PR221	Home for the aged with nursing staff	5			47,150
PR222	Home for the aged without nursing staff	2	2		34,103
PR229	Home for the aged - unclassified	3			10,746
PR233	Children's day care	2			800
PR241	Hospital	15	1		469,215
PR242	Sanatorium, sanatorium, nursing convalescent home	2			750
PR244	Mental hospital	2			400
PR245	Clinic	4			93,305

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR249	Hospital, sanatorium, clinic - unclassified	2			7,367
PR299	Miscellaneous institutional - unclassified	3			4,200
PR311	Dwelling, year-round use (1-family)	1,826	138	19	41,713,638
PR312	Dwelling, seasonal use - in season (1-family)	34	1		826,515
PR313	Dwelling, seasonal use - off season (1-family)	5			401,373
PR314	Dwelling, year-round use (2-family)	166	22	9	3,846,421
PR317	Dwelling, farm (1-family)	4	1		393,902
PR319	Dwelling, 1 & 2 family - unclassified	21	1		193,461
PR321	Apartment, townhouse: 1-2 units with business	14	2	1	1,165,521
PR322	Apartment, townhouse: 1-2 units without business	6			172,052
PR323	Apartment, townhouse: 3-20 units with business	53	7	1	2,106,549
PR324	Apartment, townhouse: 3-20 units without business	195	28	1	3,697,589
PR325	Apartment, townhouse: Over 20 units	271	46	3	3,702,371
PR329	Apartment, townhouse - unclassified	43	2	1	252,883
PR331	Rooming, boarding, lodging house: 4 to 8 roomers or boarders	14	3		217,514
PR332	Rooming, boarding, lodging house: 9 to 15 roomers or boarders	6	4		167,417
PR339	Rooming, boarding, lodging house - unclassified	16	3		190,883
PR341	Hotel, inn, lodge: Year-round use	104	13	1	2,220,849
PR342	Hotel, inn, lodge: seasonal use - in season	1	2		800,000
PR344	Hotel, inn, lodge: transient dormitory type	1			150
PR349	Hotel, inn, lodge - unclassified	6	3		1,788,571
PR351	Motor hotel, motel: fewer than 3 units	1			3,700
PR352	Motor hotel, motel: 3-20 units	10			162,546
PR353	Motor hotel, motel: Over 20 units	9	1		483,906
PR359	Motor hotel, motel - unclassified	3			13,200
PR361	Dormitory: School, college, university dormitory	2			1,500
PR365	Dormitory: Convent, monastery or other religious dormitory	1	1		5,000
PR366	Dormitory: Bunkhouse and workers' barrack	1			20,323
PR371	Mobile home (1 or 2 family unit)	73	11	4	2,043,640
PR372	Houseboat	2			1,075
PR373	Travel trailer	31			283,477
PR374	Camping trailer	13	1		99,292
PR375	Motor home	43	1		473,751
PR376	Truck with camper	12	1		64,472
PR379	Mobile home, trailer - unclassified	36	1		263,312
PR391	Children's play house	1			50
PR399	Residential miscellaneous - unclassified	17	2		172,358
PR411	General business office	43	2		3,078,905

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR412	Civic, federal or provincial government office	5			137,400
PR413	Bank	8			136,900
PR414	Medical, health, research or scientific office	4			64,559
PR415	Engineering, architectural and technical office	1			180,000
PR416	Mailing, photocopy company office	1			270
PR417	Post office	1			200
PR419	Office - unclassified	5			477,444
PR421	Barber or hairdressing establishment	1			20,000
PR422	Beauty parlour	2			1,100
PR429	Personal service property - unclassified	1			6,500
PR439	Electronic equipment - unclassified	3			4,125
PR499	Miscellaneous business and personal service - unclassified	11			260,224
PR511	Supermarket	10			75,900
PR512	Market, grocery store	17	2		930,337
PR513	Specialty food store	6			134,672
PR514	Liquor, beverage store	1			52,530
PR516	Delicatessen	2			46,500
PR519	Food, beverage sale - unclassified	5			24,669
PR521	Clothing store	6			108,848
PR525	Fur store	1			21,288
PR526	Dry goods store	4	1		593,622
PR529	Textile, wearing apparel sale - unclassified	8			166,116
PR531	Furniture store	7			1,072,794
PR536	Rug, floor covering store	1			150,000
PR539	Furniture, appliance hardware sales - unclassified	1			5,000
PR541	Book, stationery store	1			100
PR542	Newsstand, tobacco shop	2			2,200
PR543	Drug store	4	1		497,430
PR544	Jewellery store	1			29,252
PR545	Gift shop	2			230,000
PR547	Florist shop, greenhouse	2			6,400
PR549	Books, newspapers, drugs - unclassified	2			142,500
PR552	Dry goods store	2	1		1,066,962
PR554	Garden supply store	3			657,729
PR555	Retail lumber sales	1			2,000
PR556	Pet store, animal hospital	3			190,250
PR559	Recreation, hobby supplies - unclassified	1			780,000
PR561	Furniture repair or upholstery without sales	1			615,250
PR563	Laundry, self-service	11			12,359
PR564	Laundry, dry cleaner	7			382,988
PR566	Home maintenance service	1			26,000
PR567	Maintenance shop, general	7	3		551,732
PR569	Household repair service - unclassified	1			910
PR571	Service station; public	11	1		449,217
PR572	Service station; private	3			273,317

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR573	Motor vehicle repairs	23	2		2,677,199
PR574	Florist shop	5			81,334
PR576	Boat sales	1			8,000
PR579	Motor vehicles, boats, sales and service - unclassified	13			44,137
PR581	Department store	1			1,500
PR582	Variety store - small	2	2		650,000
PR583	Variety store - large	3			93,500
PR585	Shopping mall - public Areas	13	3		139,205
PR589	Department, variety store - unclassified	1			11,800
PR591	Professional supply sales	3	3		1,048,671
PR593	Builders supply sales	2			33,200
PR599	Miscellaneous mercantile - unclassified	23	2		4,181,364
PR612	Hazardous chemicals manufacture	2			248,000
PR613	Plastic manufacture	3			29,602
PR614	Plastic products manufacture	3	2		840,000
PR618	Asphalt, coal products manufacture	3	1		36,466
PR621	Sawmill, planing mill	78	4		12,807,052
PR622	Wood, cane container, and small wares manufacture	2			1,204,185
PR623	Wood, cork products manufacture	4	1		239,500
PR624	Furniture, bedding manufacture	2			227,550
PR625	Paper, pulp, paperboard manufacture	18			2,151,717
PR626	Paper, pulp, paperboard products manufacture	1			10,000
PR627	Newspaper, magazine, printing and publishing	4			670,500
PR628	Printing, publishing	1			8,200
PR629	Wood, furniture, paper, printing manufacturing - unclassified	7			509,148
PR631	Basic iron and steel manufacture	2			5,500
PR632	Basic nonferrous metals manufacture	4			521,100
PR633	Basic metal products manufacturing	7	3		72,850
PR634	Machinery manufacture	3			10,000
PR636	Electrical and electronic appliance manufacture	4			59,000
PR639	Metal, metal products, electrical equip. man. - unclassified	2			214,080
PR641	Slaughtering, preparation, preserving of meat	6			490,501
PR644	Canning, preserving of fish, sea foods	1			460,000
PR645	Grain mill products manufacturing	4			49,340
PR646	Bakery product manufacturing	2			112,000
PR649	Food processing - unclassified	3			855,300
PR653	Breweries	2			7,000
PR677	Rubber, rubber products manufacturing	2			172,000
PR681	Shipbuilding and repairing of vessels over 20m	1			10,000
PR682	Boatbuilding and repairing of vessels 20m and under	1			1,000

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR689	Vehicles and related equipment - unclassified	9			77,421
PR691	Instrument manufacturing	1			15,000
PR696	Laundry and dry cleaning plant	2			20,000
PR699	Miscellaneous manufacturing - unclassified	11			1,671,230
PR711	Seeds, beans, nuts, grain	1			11,158
PR716	Agricultural supply storage storage in bulk	9			1,255,163
PR719	Agricultural products storage - unclassified	3			391,036
PR731	Packaged foodstuffs storage	5			972,700
PR733	Loose or bagged processed foods, storage	1			3,000
PR735	Cold storage	2			150,650
PR741	Flammable liquids tank storage	1			250,000
PR744	LP gas cylinders storage	1			80
PR749	Flammable liquids, gases, petroleum product storage - unclassified	2			28,476
PR751	Lumberyards, building materials storage	4			121,500
PR752	Wood products storage	10	6		795,268
PR753	Furniture storage	2			16,000
PR754	Fibre products storage	2			25,000
PR755	Rolled paper, newsprint storage	1			150
PR756	Paper and paper products storage	1			50
PR757	Felled timber, log storage	2			155,602
PR758	Pulpwood pile, cordwood storage	1			480
PR759	Wood, furniture, paper and products storage - unclassified	6	4		71,422
PR767	Rubber, rubber products storage	2			5,500
PR774	Machinery storage	4			219,966
PR777	Scrap and junkyards	5	1		3,658
PR779	Metal products, machinery, electrical appliance storage - unclassified	1			98,000
PR781	Garage: Individual residential parking	117	3		1,373,802
PR782	Garage: General auto parking	37			484,984
PR783	Bus, truck and auto fleets storage	2			425,473
PR784	Heavy machine and equipment storage	3			1,170,648
PR785	Marinas, boat and ship storage	8			90,450
PR789	Vehicle storage - unclassified	3			21,730
PR791	General warehouse	23			5,290,158
PR795	Glass and glass products storage	1			200
PR797	Ice storage	1			12,000
PR799	Miscellaneous storage properties - unclassified	20			222,367
PR811	Brush, grass and light ground cover	15	2		40,140
PR812	Dumps	2			16,000
PR813	Trees	51	2		76,354
PR814	Fences, poles, railroad ties	32	4		2,026,535
PR815	Trash and rubbish	310	2		268,926
PR816	Mailboxes	12			25,925
PR817	Cemetery	2			550
PR818	Forest, standing timber	1			

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR819	Outdoor property - unclassified	46	1		176,931
PR821	Bridge, trestle, overpass, elevated road and railway	6			581,800
PR831	Buildings under construction	12			511,241
PR832	Buildings under demolition	9			49,252
PR834	Demolition, other than buildings	1			500
PR835	Vacant property	23	2		457,534
PR836	Unoccupied property	18			296,830
PR837	Contractors' sheds	3			31,000
PR838	Building under major renovation	2			34,969
PR839	Under construction or demolition - unclassified	10			320,774
PR841	Motor craft (20m and under loa)	29	5		616,248
PR842	Vessel (under 1,000gt)	1			40,000
PR847	Non self-propelled vessel	1			5,000
PR848	Commercial fishing vessel	7	2		158,800
PR849	Watercraft - unclassified	8			129,124
PR851	Railway car: Passenger, diner	2			6,108
PR853	Railway car: Freight	4	1		46,280
PR854	Locomotive, engine, and other power unit	1			10,000
PR861	Automobile	2,374	21	1	8,753,039
PR862	Bus, trackless trolley	17			120,078
PR863	Truck, compressed or lp gas tank	2			24,780
PR864	Truck, flammable liquid, chemical tank	3			370,000
PR865	Truck, general	85	2		1,769,226
PR866	Motorcycle	17			14,501
PR867	Wagon, Non-motorized hauling vehicle	7	1		28,475
PR868	Industrial or commercial trailer	62	2	1	1,183,853
PR869	Ground transport vehicle - unclassified	13			85,670
PR871	Aircraft, private	1			1,000,000
PR872	Aircraft, commercial - non scheduled airlines	1			100,000
PR881	Construction equipment	25			1,096,716
PR882	Farm tractor and equipment	23			286,945
PR883	Crane, mobile and fixed	2			419,385
PR884	Industrial truck: Fork lift and material handling	18	2		847,926
PR885	Drilling rig; petroleum, gas only	2			20,000
PR886	Snowmobile	7			135,138
PR889	Special vehicle - unclassified or unknown	42			1,532,874
PR891	Pier, wharf	18			6,402,703
PR911	Laboratory: Chemical, biological and medical	2			200
PR914	Laboratory: Radioactive material	1			500
PR918	Laboratory: Medical	1			500
PR921	Poultry, egg production	2			129,300
PR922	Cow and cattle production	1			110,000
PR923	Storage barn	21			336,401
PR924	Animal barn, cattel, pigs, horses	7			683,061
PR925	Crops, orchards, straw stacks	1			8,000

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
PR929	Farm facility - unclassified	18			988,815
PR931	Shed	57	3		246,683
PR932	Privy	12			21,750
PR935	Non-metallic mineral product manufacturing	2			4,118
PR938	Telephone booth	12			27,690
PR939	Miscellaneous outbuildings - unclassified	37			238,113
PR941	Electrical light and power generating plant	2			425,000
PR942	Electric light & power distribution system	14			259,488
PR944	Gas distribution system, pipeline	1	3		63,000
PR946	Water supply system	4			88,000
PR947	Sanitary service	2			125,400
PR949	Utility - unclassified	6	1		23,550
PR951	Structural clay products manufacturing	1			7,000
PR956	Cement batch mixing plant	2			26,000
PR963	Metal ore mine	1			1,500,000
PR965	Stone, slate, clay, gravel, sand, quarry or pit	1			25,000
PR969	Mining, quarrying - unclassified	1			5,400
PR972	Radio, radar site	1			200
PR973	Fire, police, emergency communication centre	1			500
PR974	Telephone exchange	1	1		800,000
PR989	Nucleonics - unclassified	1			200
PR998	Tillers	1			150
TOTALS		7,671	416	43	174,991,021

SD Smoke Detector Alarm Operation

SD000	No smoke alarm installed	1,610	151	16	80,653,897
SD001	Alarm activated - assisted occupants in evacuating	334	61	2	9,767,822
SD002	Alarm activated - inaudible	8	1		1,034,651
SD003	Alarm activated - occupants unable to respond	17	2		982,446
SD004	Alarm activated - unnecessary to evacuate	184	12		3,992,959
SD005	Alarm activated - occupant action unknown	89	6	3	4,224,915
SD006	Alarm not activated - unsuitable location	68	2		673,099
SD007	Alarm not activated - no or dead battery	90	17	4	2,284,268
SD008	Alarm not activated - AC power not connected or off	25	2	1	2,217,594
SD009	Alarm not activated - mechanical failure	8	1		58,382
SD010	Alarm not activated - unknown	248	33	10	6,164,436
SD011	Not applicable, e.g. outside area	3,395	82	3	32,464,759
SD099	Smoke alarm operation unknown	1,595	46	4	30,471,793
TOTALS		7,671	416	43	174,991,021

SP Sprinkler Protection

SP000	Sprinkler protection unknown	1,234	1		9,457,564
SP001	Complete sprinkler protection - supervised or standard watchman	111	12		3,421,860

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
SP002	Complete sprinkler protection - alarm to fire department	55	9		776,072
SP003	Complete sprinkler protection - unsupervised, local alarms only	140	17		4,157,508
SP004	Partial sprinkler protection - supervised or standard watchman	26			2,316,857
SP005	Partial sprinkler protection - alarm to fire department	23			383,900
SP006	Partial sprinkler protection - unsupervised, local alarms only	124	26		4,795,160
SP007	No sprinkler protection	2,820	292	41	125,648,881
SP008	Not applicable, eg. vehicle, outside area, etc.	3,121	59	2	23,886,539
SP009	Sprinkler protection - unclassified	17			146,680
TOTALS		7,671	416	43	174,991,021

TI	Time of Day				
TI000	Time 0000-0059 hrs	280	22	8	11,008,315
TI001	Time 0100-0159 hrs	344	22	1	13,457,030
TI002	Time 0200-0259 hrs	356	17	1	12,610,205
TI003	Time 0300-0359 hrs	317	34	2	9,684,109
TI004	Time 0400-0459 hrs	227	16	1	6,701,413
TI005	Time 0500-0559 hrs	209	15	1	8,650,774
TI006	Time 0600-0659 hrs	176	10	6	3,096,703
TI007	Time 0700-0759 hrs	168	7	3	2,307,933
TI008	Time 0800-0859 hrs	198	7	2	2,667,525
TI009	Time 0900-0959 hrs	260	12	1	5,926,775
TI010	Time 1000-1059 hrs	278	15	2	5,301,778
TI011	Time 1100-1159 hrs	303	20		12,012,441
TI012	Time 1200-1259 hrs	324	8	2	4,551,203
TI013	Time 1300-1359 hrs	313	20	1	6,217,113
TI014	Time 1400-1459 hrs	360	8	1	4,463,371
TI015	Time 1500-1559 hrs	398	13	1	4,653,975
TI016	Time 1600-1659 hrs	393	23		5,679,683
TI017	Time 1700-1759 hrs	389	40	1	6,943,886
TI018	Time 1800-1859 hrs	411	29	1	6,283,747
TI019	Time 1900-1959 hrs	366	14	1	12,617,281
TI020	Time 2000-2059 hrs	324	26		7,239,330
TI021	Time 2100-2159 hrs	305	17	3	6,855,632
TI022	Time 2200-2259 hrs	285	12		7,032,639
TI023	Time 2300-2359 hrs	273	8	3	6,084,307
TI099	Time unknown	414	1	1	2,943,853
TOTALS		7,671	416	43	174,991,021

WD	Weekdays				
WD001	Sunday	1,099	49	3	31,400,906
WD002	Monday	1,007	62	7	23,924,074
WD003	Tuesday	1,142	58	3	24,020,662
WD004	Wednesday	1,010	48	5	20,707,987

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
WD005	Thursday	1,094	71	6	23,649,218
WD006	Friday	1,118	65	9	23,241,153
WD007	Saturday	1,201	63	10	28,047,021
TOTALS		7,671	416	43	174,991,021

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
Circumstances Contributing to Fire Casualties					
Condition of Casualty					
FC001	Death	35		43	3,577,040
FC002	Light injury	106	139		7,207,438
FC003	Minor injury	166	229		9,963,924
FC004	Serious injury	46	48		1,828,992
FC010	Condition of casualty unknown	96	99	18	7,981,575
FC011	Asleep at time of fire	43	56	11	3,072,144
FC012	Bedridden or other physical handicap	2		2	20,300
FC013	Impairment by alcohol, drugs or medication	19	17	4	607,551
FC014	Awake or no physical or mental impairment at time of fire	154	201	1	9,393,885
FC015	Under restraint or detention	1	1		300
FC016	Too young to react to fire	4	3	4	95,739
FC019	Condition of casualty - unclassified	35	39	3	1,711,355
Action of Casualty					
FC020	Action of casualty unknown	99	102	25	7,980,416
FC021	Injured while attempting to escape	41	52	3	3,031,189
FC022	Over exertion or heart attack	5	5		202,567
FC023	Voluntarily entered or remained for rescue purpose	14	18		521,373
FC024	Voluntarily entered or remained for fire fighting	114	144	1	8,573,190
FC025	Voluntarily entered or remained to save personal property	12	14		323,224
FC026	Loss of judgement or panic	18	19	2	311,162
FC027	Received delayed warning	10	13		436,099
FC028	Did not act	22	18	6	557,850
FC029	Action of casualty - unclassified	31	31	6	2,332,988
Ignition of Fabric					
FC030	Ignition of clothing or fabric not applicable	271	363	23	18,229,924
FC031	Outer clothing	26	25	4	754,611
FC032	Sleepwear	3	2	4	145,189
FC033	Underclothing	2	1	1	172,813
FC035	Bedding and bed linen	4	4		164,100
FC036	Mattress or pillow	3	4		6,500
FC037	Upholstered furniture	8	3	5	435,121
FC038	Rugs	3	3	1	11,896
FC039	Ignition of clothing or fabrics - unclassified	13	11	5	1,343,093
Type of Fabric					
FC040	Type of fabric or material not applicable	269	356	23	18,184,924
FC041	Cotton	13	13	1	881,397
FC042	Wool	1		1	142,813
FC045	Synthetic fibre	14	11	5	625,711

Fire Losses in British Columbia, 1991

CODE	DESCRIPTION	FIRES	INJURED	DEAD	\$ LOSS
FC046	Mixture fibres	19	14	7	685,324
FC049	Type of fabric or material ignited - unclassified	14	12	6	594,367
Cause of Failure to Escape					
FC050	Cause of failure to escape unknown	144	166	18	9,681,715
FC051	Trapped by: Rapid spread of fire/ smoke through vertical openings	8	8	3	229,979
FC052	Trapped by: Rapid spread of fire/ smoke through horizontal openings	15	20	4	3,924,868
FC053	High flame spread of combustible finish of walls, ceilings or floors	11	9	11	809,689
FC055	Falling debris	3	3		233,048
FC056	Explosion	12	13	1	202,640
FC057	Exit locked, blocked or obstructed	1		1	72,000
FC058	Outdoor fire includes forest, brush	4	6		3,019
FC059	Cause of failure to escape - unclassified	150	191	5	7,591,121

SUMMARY OF FIRE LOSSES BY PROPERTY GROUPS, 1991

Property Class. Codes	Property Group	No. of Fires	Per Cent of Total Fires	\$ Loss	Per Cent of Total \$ Loss	No. Injured	Per Cent of Total Injured	No. Dead	Per Cent of Total Dead
	Assembly								
131-139	Educational	85	1.1	2,635,197	1.5	0	0.0	0	0.0
172-173	Nightclub, tavern	10	0.1	1,739,600	1.0	1	0.2	0	0.0
171, 174, 179	Restaurant, eating establishment	93	1.2	2,987,609	1.7	8	1.9	1	2.3
111-129, 141-169 and 181-199	Others	61	0.8	2,123,327	1.2	1	0.2	0	0.0
	Institutional								
221-229	Home for aged	10	0.1	91,999	0.1	2	0.5	0	0.0
231-249	Hospital, day-centre, home	27	0.4	571,837	0.3	1	0.2	0	0.0
211-219, 299	Other	16	0.2	521,720	0.3	3	0.7	0	0.0
	Residential								
311-319	One- & two-family dwelling	2,056	26.8	47,375,310	27.1	163	39.2	28	65.1
321-329	Apartment	582	7.6	11,096,965	6.3	85	20.4	7	16.3
331-359	Hotel, motel, rooming house	171	2.2	6,048,736	3.5	29	7.0	1	2.3
361-369	Dormitory	4	0.1	26,823	0.0	11	2.6	4	9.3
371	Mobile home	73	1.0	2,043,640	1.2	1	0.2	0	0.0
373-376	Recreational vehicle	99	1.3	920,992	0.5	3	0.7	0	0.0
372, 377-399	Others	56	0.7	436,795	0.2	3	0.7	0	0.0
411-499	Business and personal service	86	1.1	4,367,627	2.5	2	0.5	0	0.0
511-599	Mercantile	225	2.9	18,268,782	10.4	21	5.0	0	0.0
611-699	Industrial manufacturing	195	2.5	23,805,242	13.6	11	2.6	0	0.0
711-799	Industrial storage	281	3.7	13,666,671	7.8	14	3.4	0	0.0
	Miscellaneous								
811-829, 891	Outdoor property, pier, wharf	495	6.5	9,615,864	5.5	11	2.6	0	0.0
841-849	Watercraft	46	0.6	949,172	0.5	7	1.7	0	0.0
851-859	Rail transport and equipment	7	0.1	62,388	0.0	1	0.2	0	0.0
861	Automobile	2,374	30.9	8,753,039	5.0	21	5.0	1	2.3
862-869, 881-889	Other ground trans. & special veh.	325	4.2	7,935,567	4.5	7	1.7	1	2.3
871-879	Aircraft	2	0.0	1,100,000	0.6	0	0.0	0	0.0
831-839, 899 and 911-999	Others	292	3.8	7,846,119	4.5	10	2.4	0	0.0
		7,671	100.0	174,991,021	100.0	416	100.0	43	100.0

ARSON LOSSES BY PROPERTY GROUP, 1991

Property Class. Codes	Property Group	No. of Arson Fires		Incidence of Arson within Prop. Group (%)		% of ALL Arson Fires in B.C.	Dollar Loss		% of Total \$ Loss 1991
		1990	1991	1991	1991		1990	1991	
Assembly									
131-139	Educational	49	56	65.9	3.1		1,580,137	529,901	3.5
172-173	Nightclub, tavern	3	2	20.3	0.1		410,000	107,324	0.9
171, 174, 179	Restaurant, eating establishment	15	22	23.6	1.2		2,015,553	2,694,394	4.4
111-129, 141-169 and 181-199	Others	34	30	49.2	1.6		990,353	3,343,406	2.2
Institutional									
221-229	Home for aged	0	0	0.0	0.0		0	0	0.0
231-249	Hospital, day-centre, home	8	10	37.0	0.5		95,087	18,950	0.2
211-219, 299	Others	3	12	75.0	0.7		513,520	2,200	1.1
Residential									
311-319	One- & two-family dwelling	155	243	11.8	13.3		7,090,732	5,237,344	15.6
321-329	Apartment	122	131	22.5	7.2		1,747,615	2,320,562	3.8
331-359	Hotel, motel, rooming house	23	61	35.7	3.3		2,373,423	466,818	5.2
361-369	Dormitory	3	0	0.0	0.0		0	1,028,145	0.0
371	Mobile home	8	6	8.2	0.3		140,950	219,500	0.3
373-376	Recreational vehicle	22	17	17.2	0.9		251,689	186,254	0.6
372, 377-399	Others	10	19	33.9	1.0		122,541	96,501	0.3
411-499	Business and personal service	25	44	5.1	2.4		3,501,088	1,357,159	7.7
511-599	Mercantile	53	85	3.8	4.7		6,425,382	4,038,057	14.1
611-699	Industrial manufacturing	21	23	11.8	1.3		4,063,009	4,145,630	8.9
711-799	Industrial storage	85	117	41.6	6.4		7,973,189	3,453,005	17.5
Miscellaneous									
811-829, 891	Outdoor property, pier, wharf	169	267	53.9	14.6		287,256	499,905	0.6
841-849	Watercraft	8	6	13.0	0.3		179,450	321,806	0.4
851-859	Rail transport and equipment	0	0	0.0	0.0		0	0	0.0
861	Automobile	499	510	21.5	27.9		3,041,370	2,732,587	6.7
862-869, 881-889	Other grd transport & special veh.	37	43	13.2	2.4		1,075,720	483,654	2.4
871-879	Aircraft	0	0	0.0	0.0		0	0	0.0
831-839, 899 and 911-999	Others	133	123	4.2	6.7		1,658,403	4,023,720	3.6
		1,485	1,827		100.0		37,306,822		100.0
							45,536,467		

FIRES WITH LOSS OF \$500,000 OR MORE

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	\$LOSS	INJ	DEAD
910106	Surrey	Heavy machine and equipment storage	Act or omission unknown	993,963	0	0
910109	Richmond	High school	Arson or set fire - motive unknown/und	700,000	0	0
910118	Whistler	Miscellaneous mercantile - unclassified	Act or omission unknown	1,316,508	0	0
910118	Whistler	Miscellaneous mercantile - unclassified	Act or omission unknown	895,000	0	0
910131	Comox	Tavern	Act or omission unknown	700,000	0	0
910202	Fort Nelson Rural	Wood products storage	Part failure, leak, break	730,000	6	0
910211	Pentsticon	Hotel, inn, lodge - unclassified	Arson or set fire - motive unknown/und	1,700,000	0	0
910213	Prince George	Miscellaneous manufacturing - unclassified	Ignorance of hazard	978,048	0	0
910222	Peace River-Liard Rural	Motor vehicle repairs	Act or omission unknown	709,177	0	0
910226	Vancouver	Dwelling, year-round use (single-family)	Act or omission unknown	500,000	0	0
910314	Prince Rupert	Apartment, townhouse: 3-20 units, with business	Act or omission unknown	694,014	0	1
910320	Maple Ridge	Sawmill, planing mill	Act or omission unknown	1,630,027	2	0
910405	Vancouver	Apartment, townhouse: Over 20 units	Act or omission unknown	560,000	0	0
910406	Vancouver	Sporting goods sales, bicycle sales & repair	Arson or set fire - mental disorder	1,065,662	1	0
910415	Vancouver	Professional supply sales	Act or omission unknown	1,036,221	3	0
910423	Vanderhoof	Sawmill, planing mill	Accident	4,600,000	0	0
910427	Vancouver	Dry goods store	Suspected set fire - motive unknown/und	540,167	0	0
910430	Summerland	Wood, cane, and small wares manufacturing	Act or omission unknown	1,173,185	0	0
910510	Prince George	Truck, general	Act or omission unclassified	755,000	0	0
910518	Prince George	Recreation, hobby supplies - unclassified	Act or omission unknown	780,000	0	0
910529	Fraser-Fort George Rural	Fences, poles, railroad ties	Act or omission unknown	2,000,000	0	0
910601	Prince George	General warehouse	Suspected set fire - motive unknown/und	1,500,000	0	0
910615	Cranbrook	Furniture repair or upholstery, without sales	Act or omission unknown	615,250	0	0
910616	Vancouver	General warehouse	Suspected set fire - motive unknown	1,207,500	0	0
910619	Burnaby	Restaurant	Arson or set fire - motive unknown/und	765,121	1	0
910707	Vancouver	Pier, wharf	Act or omission unknown	5,665,000	0	0
910713	Burnaby	Reformatory, juvenile detention home	Arson or set fire - motive unknown/und	500,000	0	0
910721	Bulkely-Nechako Rural	Agricultural supply storage	Arson or set fire - motive unknown/und	1,200,000	0	0
910722	Gold River	Paper, pulp, paperboard manufacture	Arson or set fire - financial gain	2,000,000	0	0

Fire Losses in British Columbia, 1991

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	\$LOSS	INJ	DEAD
910727	Golden	Sawmill, planing mill	Act or omission unclassified	2,000,000	0	0
910808	Pitt Meadows	Food processing - unclassified	Arson or set fire - cover-up crime	819,300	0	0
910812	Vernon	General warehouse	Suspected set fire - motive unknown/uncl	793,085	0	0
910822	Bulkely-Nechako Rural	Metal ore mine - unclassified	Mechanical or electrical failure	1,500,000	0	0
910831	Lillooet	Furniture store	Automobile accident	1,000,000	0	0
910902	Whistler	Dwelling, year-round use (single-family)	Misuse of material ignited - uncl	1,000,000	0	0
910908	Campbell River	Aircraft, private	Aircraft accident	1,000,000	0	0
910909	Vancouver	Newspaper, magazine, printing and publishing	Act or omission unknown	650,000	0	0
910922	Matsqui	Plastic products manufacture	Suspected set fire - motive unknown/uncl	775,000	2	0
910924	Kamloops	General warehouse	Arson or set fire - revenge, spite	902,237	0	0
910929	Smithers	Hotel, inn, lodge: Year-round use	Misuse of material ignited - uncl	850,000	0	0
911004	Enderby	Sawmill, planing mill	Human failing - unclassified	500,000	0	0
911012	Surrey	Miscellaneous mercantile - uncl.	Suspected set fire - motive unknown/uncl	1,000,000	0	0
911023	Vancouver	Telephone exchange	Act or omission unknown	800,000	1	0
911024	Vancouver	Packaged foodstuffs storage	Suspected set fire - motive unknown/uncl	955,800	0	0
911028	Grand Forks	Hotel, inn, lodge: Year-round use	Act or omission unknown	950,000	0	0
911101	Port Coquitlam	Motor vehicle repairs	Fuel spilled accidentally	1,334,386	0	0
911114	Penticton Rural	Bridge, trestle, overpass, elevated railway	Act or omission unknown	500,000	0	0
911208	Richmond	General business office	Arson or set fire - financial gain	1,543,000	0	0
911221	Fort Nelson Rural	Sawmill, planing mill	Act or omission unclassified	1,500,000	0	0
911230	Central Kootenay Rural	Hotel, inn, lodge: Seasonal use	Act or omission unknown	800,000	2	0